

# Exhibit 9

**DECLARATION OF DR. MARTIN A. SCHREIBER**

I, Dr. Martin A. Schreiber, MD, FACS, FCCM, COL, MC, USAR, declare under penalty of perjury that the following is true and correct:

1. This declaration is based on my personal knowledge and experience, and if I am called as a witness, I could and would testify competently to the truth of the matters discussed in this declaration.

2. I hold my opinions to a reasonable degree of medical and scientific certainty, based on my education, training, research and clinical experience, as well as my knowledge of relevant medical literature and the application of scientific principles to wounding ballistics.

3. Also relevant to the formation of my opinions is my knowledge of accepted standards of medical practice as they apply to emergency medicine.

4. I further base my opinions on my experience as a trauma surgeon both for military and civilian patients and as a soldier who has received weapons training and is required to carry weapons on deployment, which I discuss in more detail below. My curriculum vitae, which is attached as **Exhibit A**, documents my educational and professional experience in detail.

5. I am being compensated at a rate of \$250/hour.

6. During the past four years, I have participated as an expert witness in over 30 cases, the vast majority of which were malpractice cases involving trauma and emergency general surgery patients. I have attached a list of cases for which I have provided expert testimony in the last four years as **Exhibit B**. In addition, I am currently an expert witness in *National Association for Gun Rights v. City of Highland Park, Illinois*, Case No. 1:22-cv-04774 (N.D. Ill.).

7. I have been retained by the Office of the Attorney General of Illinois to provide expert testimony in litigation challenging various aspects of Illinois Public Act 102-1116, also known as the Protect Illinois Communities Act. As of the date of this declaration, the scope of my engagement includes providing expert testimony in the following cases: *Harrel v. Raoul*, Case No. 23-cv-141-SPM (S.D. Ill.); *Langley v. Kelly*, Case No. 23-cv-192-NJR (S.D. Ill.); *Barnett v. Raoul*, 23-cv-209-RJD (S.D. Ill.); *Federal Firearms Licensees of Illinois v. Pritzker*, 23-cv-215-NJR (S.D. Ill.); and *Herrera v. Raoul*, 23-cv-532 (N.D. Ill.). I have reviewed the provisions of Public Act 102-1116 being challenged in this case.

#### **BACKGROUND AND QUALIFICATIONS**

8. I am board-certified in general surgery and surgical critical care and a Colonel in the United States Army Reserve. I have been a soldier for nearly 40 years. I joined the United States Army Reserves in 1984, completing my Army Officer Basic Training Course at the Silas B. Hays Army Hospital in 1985.

9. I have been a surgeon in a number of military settings, including Chief of Surgery for the 31st Combat Support Hospital and a general surgeon and Medical Director of the Surgical Intensive Care Unit at William Beaumont Army Medical Center.

10. When the United States went to war in Afghanistan and Iraq, I volunteered for active duty and deployment. I was deployed three times, serving in Iraq in 2005 and Afghanistan in 2010 and 2014.

11. During my deployment to Iraq, I was the Chief of Surgery for the 228th Combat Support Hospital in Tikrit, Iraq.

12. During my deployments to Afghanistan, I was Director of the Joint Theater Trauma System, United States Central Command in Bagram, Afghanistan, and a surgeon with the 932nd Forward Surgical Team in Shank, Afghanistan.

13. While deployed, I have cared for countless casualties (in the hundreds), including casualties to U.S. service men and women, soldiers of our allies, residents of host nations, and soldiers of our enemies.

14. As a soldier, I have been required to qualify with a 9mm Beretta handgun on a targeted shooting range on numerous occasions. I have also qualified with the M-16 assault rifle, which bears a close resemblance to an AR-15, on a targeted shooting range. I have also fired an M2 50-caliber machine gun on training exercises at Shank, Afghanistan with a special forces unit while on deployment in 2014.

15. I am also the Chief of the Division of Trauma, Critical Care & Acute Care Surgery and Professor of Surgery at Oregon Health & Science University (“OHSU”) as well as the trauma medical director. OHSU has the only academic Level 1 trauma center in Oregon. It is internationally recognized in trauma research, named among the nation’s best programs by the American College of Surgeons. OHSU cares for approximately 4,000 trauma patients per year, approximately 8% of whom suffer penetrating injuries. 163 patients injured by gunshot wounds were treated at OHSU last year alone.

16. As a trauma surgeon at OHSU, I am personally involved in the care of trauma patients, including those who have suffered from gunshot wounds, throughout their in-hospital care and recovery. I am present at their arrival and accompany them to the intensive care unit or operating room as appropriate. I also care for trauma patients on the ward and in clinic, and in their late care as needed.

17. I received my Bachelor of Arts in Chemistry from the University of Chicago in 1984 and my Medical Degree from Case Western Reserve University in 1988. I completed a surgical internship at the Madigan Army Medical Center in Fort Lewis, Washington and a surgical residency at the University of Washington Seattle in Seattle, Washington. I completed a fellowship in Trauma and Critical Care at the University of Washington Seattle, as well. I am a Fellow in the American College of Surgeons and a Fellow of Critical Care Medicine.

18. In light of the fact that I have cared for hundreds of patients injured by handguns and assault rifles, I am very familiar with how wounds from these weapons differ and their relative killing capacity.

## **OPINIONS**

### **I. The Killing Potential Of Assault Weapons.**

19. During each of my three deployments, I was deployed as a surgeon with the United States Army. For deployment, the Army required me to qualify on a targeted shooting range and carry a 9mm Beretta essentially at all times for self-defense. While I received training on other weapons, such as an M-16, my Army-issued weapon was a handgun because I was a surgeon and needed a weapon for self-defense. The deployed warfighter, by contrast, carried, at a minimum, an M-4 assault weapon, with the capacity to kill numerous enemy combatants rapidly, because the warfighter's job, unlike the surgeon's, is to kill the enemy. The U.S. military's judgment that handguns, not assault rifles, are the right weapon for self-defense, while assault rifles, not handguns, are the right weapon for killing enemy combatants speaks volumes.

20. The killing capacity of a weapon is primarily determined by the kinetic energy imparted by the bullet, its effective range, and the rate at which the weapon fires projectiles. Kinetic energy is determined by the following equation:<sup>1</sup>

$$E = \frac{1}{2} \text{ mass} \times \text{velocity}^2$$

21. The muzzle velocity of an AR-15 is approximately 3200 feet per second<sup>2</sup> compared to 1200 feet per second for a 9mm Beretta.<sup>3</sup>

22. The kinetic energy of a 9mm Beretta is estimated to be approximately 400 foot pounds<sup>4</sup> compared to 1303 foot pounds for an AR-15.<sup>5</sup>

23. When a projectile fired from a firearm penetrates the human body, it creates a temporary and, eventually, permanent cavity. Holding all else equal, the larger the cavity, the more severe the injury.

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<sup>1</sup> Stefanopoulos PK, Mikros G, Pinialidis DE, et al. Wound Ballistics of Military Rifle Bullets: An Update on Controversial Issues and Associated Misconceptions. *Journal of Trauma and Acute Care Surgery*. 2019;87:696.

<sup>2</sup> “ArmaLite/Colt AR-15,” Military Factory (May 22, 2018), [https://www.militaryfactory.com/smallarms/detail.php?smallarms\\_id=383](https://www.militaryfactory.com/smallarms/detail.php?smallarms_id=383).

<sup>3</sup> “M9 9mm Beretta Pistol,” FAS Military Analysis Network (Jan. 20, 1999), <https://man.fas.org/dod-101/sys/land/m9.htm>.

<sup>4</sup> A foot pound is a unit of energy equal to the amount required to raise one pound a distance of one foot.

<sup>5</sup> Rhee PM, Moore EE, Joseph B, et al. Gunshot Wounds: A Review of Ballistics, Bullets, Weapons and Myths. *Journal of Trauma and Acute Care Surgery*. 2016;80:856.

24. The large kinetic energy and force produced from an AR-15-style weapon means that a round fired by such a weapon typically creates a relatively large temporary cavity in a human body, with devastating effects to tissue and surrounding organs.<sup>6</sup>

25. Assault weapons, especially when equipped with large-capacity magazines, can also fire more shots faster than other types of weapons, causing more victims and injuries per event. Assault weapons can fire hundreds of rounds per minute in automatic mode. Even in semi-automatic mode, the self-loading feature of the weapon allows it to fire dozens of shots per minute. For example, unlike a bolt-action hunting rifle, which requires the shooter to pull the bolt back before firing each round, an assault weapon allows the shooter to fire each round without manually cycling the weapon. When combined with a large-capacity magazine, an assault weapon can fire more rounds per minute than a handgun, shotgun, or hunting rifle.

26. Assault weapons are also highly accurate at great distances. The effective range of an AR-15 is approximately 400–500 yards compared to up to 50 yards for a typical handgun. I have personally witnessed a soldier instantly killed by an assault weapon fired from hundreds of yards away by a single bullet that penetrated his mouth and spinal cord.

27. Assault weapons also tend to be lightweight and highly maneuverable, and have low recoil, which allows people intent on inflicting mass casualties to move around easily before, during, and after shooting the weapon. In addition, due to their low recoil, assault weapons allow the shooter to continue firing without having to re-sight (i.e., re-aim) the weapon at the target. Rather, the shooter is able to keep the assault weapon still and produce a consistently straight line of fire.

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<sup>6</sup> See Stefanopoulos PK et al., *supra*, n.1 at 692.

28. The combination of high kinetic energy, the ability to fire rounds rapidly, deadly accuracy at great distance, a high degree of maneuverability, and low recoil results in maximum killing potential.

29. This is exemplified by the 2017 Las Vegas shooting, during which a single individual was able to fire hundreds of rounds each minute for 10 minutes, killing 58 people and wounding over 800 from a 32nd floor suite at a local hotel firing into a crowd at an open-air concert at a distance of more than 1,000 feet.<sup>7</sup> The weapons utilized were primarily assault weapons utilizing bump stocks allowing them to fire at a rate similar to automatic weapons.<sup>8</sup> This was the most lethal mass shooting in U.S. history. Many of the doctors, including multiple military surgeons, described the injuries as “injuries you would see in a war zone.”<sup>9</sup>

30. While Las Vegas was especially lethal, there are numerous other mass shootings that have had devastating effects on communities in mere seconds. For example, in Highland Park, Illinois, a single mass shooter armed with a Smith & Wesson M&P15, climbed on a roof and killed seven people and injured another 48 with 83 shots fired in only a very short period of time.<sup>10</sup> Doctors who were on the scene to enjoy the parade with their families, ran toward the

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<sup>7</sup> Federal Emergency Management Agency. 1 October After-Action Report of August 24, 2018 events; Thomas L. Las Vegas Shooting: Answering 4 Common Questions. The Spectrum. October 5, 2017.

<sup>8</sup> Alex Horton. *The Las Vegas Shooter Modified a Dozen Rifles to Shoot Like Automatic Weapons*, The Washington Post (Oct. 3, 2017), <https://www.washingtonpost.com/news/checkpoint/wp/2017/10/02/video-from-las-vegas-suggests-automatic-gunfire-heres-what-makes-machine-guns-different/>.

<sup>9</sup> Tim Craig, ‘Something we would see in a war zone’: Military surgeons on the wounds they treated in Las Vegas, The Washington Post (Oct. 5, 2017), <https://www.washingtonpost.com/news/post-nation/wp/2017/10/05/something-we-would-see-in-a-war-zone-military-surgeons-on-the-wounds-they-treated-in-las-vegas/>.

<sup>10</sup> Dakin Andone, Steve Almasy, & Curt Devine, *What we know about the Highland Park shooting suspect*, CNN (July 7, 2022), <https://www.cnn.com/2022/07/05/us/robert-e-crimo>

victims, encountering a scene that looked like a “war zone.” For example, according to press reports and interviews, a local doctor, who provided assistance to some of the victims, commented that he saw those killed with “horrific injuries,” the kind that “happen when bullets can blow bodies up.”<sup>11</sup> He also saw a horrific traumatic head injury, performed CPR on a young child who was severely injured, and described the injuries he encountered as those that one would see in war.<sup>12</sup> Doctors, including a trauma surgeon, and nurses at the Highland Park Hospital, where victims arrived in the emergency room after the shooting, likewise described the wounds they saw on the patients they treated as “war wounds” and “devastating.”<sup>13</sup>

## **II. Treating Wounds From Assault Rifles.**

31. The descriptions of the injuries observed during the Las Vegas and Highland Park shootings are consistent with my own experience treating wounds caused by assault weapons.

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[highland-park-suspect/index.html](#); see also *The Highland Park shooting suspect is indicted on 117 charges*, NPR (July 28, 2022) <https://www.npr.org/2022/07/28/1114207587/the-highland-park-shooting-suspect-is-indicted-on-117-charges>.

<sup>11</sup> Phil Rogers, ‘Bodies were down’: *Witness breaks down scene of mass shooting at Illinois Fourth of July parade*, NBC News (July 4, 2022) <https://www.nbcnews.com/video/illinois-doctor-recalls-moments-he-saw-bodies-down-at-fourth-of-july-parade-shooting-143393349888>; see also Jason Hanna, ‘Those are wartime injuries’: *Doctor describes the horrific scene at the Highland Park shooting*, CNN (July 5, 2022), <https://www.cnn.com/2022/07/05/us/illinois-highland-park-shooting-doctor/index.html>.

<sup>12</sup> *Id.*; see also Brett Chase, *At Highland Park Parade Mass Shooting, Doctors Went From Watching to Treating the Wounded*, Chicago Sun Times (July 8, 2022), <https://chicago.suntimes.com/2022/7/8/23196922/highland-park-parade-mass-shooting-fourth-july-doctors-loren-schechter-dave-baum>.

<sup>13</sup> Czink & Bair, ‘They Just Kept Coming’: *Highland Park Medical Staff Recalls Parade Shooting*, WGN TV (July 12, 2022), <https://wgntv.com/news/highland-park-parade-shooting/they-just-kept-coming-highland-park-medical-staff-recalls-parade-shooting/>; see also Lisa Schencker, *Highland Park Hospital Doesn’t See Many Victims of Gun Violence. Then July Fourth Happened. Here’s How the Day Unfolded*, Chicago Tribune (Aug. 14, 2022), <https://www.chicagotribune.com/business/ct-biz-highland-park-hospital-july-4-shooting-20220814-3pclhoiv3zcp7itrd2riy6g6wq-story.html>.

32. As a trauma surgeon in both the civilian and military context, I have personally treated hundreds of patients suffering from handgun wounds and assault weapon wounds.

33. The assault weapon wounds that I have seen in a civilian context are virtually identical in nature to the wounds that I saw in combat. These wounds differ substantially from those caused by other firearms, notably handguns, both in impact on the body and their relative fatality and complication rates.

34. In my experience, assault weapon blasts to the head, neck, or trunk are usually lethal, especially in the absence of personal protective equipment like a Kevlar helmet and body armor.

35. Assault weapon blasts to the abdomen tend to cause greater damage to the muscles, bones, soft tissue, and vital organs than handguns. Inside a human body, one assault weapon round can destroy organs in a way that looks like an explosion has happened. Bones may also be shattered and soft tissue shredded. For example, during my time in Afghanistan I treated civilians that were injured when terrorists fired assault weapons at them while waiting in line to vote. One civilian had their entire upper left quadrant exploded with a single bullet, destroying the pancreas, spleen, and kidney and necessitating partial removal of the pancreas, and the entire spleen and kidney.

36. Not only do patients with assault weapon injuries frequently have multiple organs injured, they also often have major blood vessels or arteries severely damaged. They frequently require massive blood transfusions due to tremendous blood loss, and they often require a series of operations instead of just one, unlike with handguns. When they do survive, they typically require prolonged hospitalizations and follow-up, face higher complication rates, and suffer much greater disability, which frequently persists for the rest of their shortened lives.

37. Assault weapon blasts to the extremities frequently result in amputations.

38. Due to lower kinetic energy, handgun injuries produce much less harm to the human body and are generally survivable unless the bullet penetrates a critical organ or major blood vessel. Most lethal injuries from handguns occur from very short distances and in the civilian setting are suicidal in nature.

39. Additionally, a handgun wound is much more likely to affect only one organ as compared to multiple organs, unlike with wounds caused by assault weapons.

40. In my experience, many patients with handgun injuries have minor injuries that do not require any surgery, and they are discharged from the emergency department. Patients with handgun injuries who require operative therapy have a very high survival rate.

41. Assault weapons are designed for the purpose of maximum killing in wartime settings. They are deadly accurate weapons with enormous destructive capacity and can be fired at a rate of hundreds of rounds per minute. The mass casualties produced by assault weapons frequently exceed the capacity of civilian trauma systems and trauma surgeons to treat and have a very high mortality rate, as in the case of the Las Vegas shooting.

Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Executed on January 31, 2023 at Lake Oswego, Oregon.

/s/

A handwritten signature consisting of a vertical line with a curved flourish to its right.

MD FACS FCCM

# Exhibit A

**CURRICULUM VITAE**  
**MARTIN A. SCHREIBER, MD FACS FCCM**  
**UPDATED 01/25/23**

**Personal Information**

Home Address:	11 Garibaldi Street Lake Oswego, OR 97035
Business Phone:	(503) 494-6518
Business Fax:	(503) 494-6519
Business Address:	Trauma, Critical Care and Acute Care Surgery Division Oregon Health & Science University 3181 SW Sam Jackson Park Road Mail Code L611 Portland, OR 97239
Birthdate:	4/24/62
Birthplace:	Cleveland, OH

**EDUCATION**

University of Chicago - Chicago, Illinois 1980-1984  
Bachelor of Arts - Chemistry

Case Western Reserve University - Cleveland, OH 1984-1988  
Medical Degree

**RESIDENCY TRAINING**

Surgical Internship - Madigan Army Medical Center Fort Lewis, WA 1988-1989  
Surgical Residency - University of Washington Seattle, WA 1989 - 1993  
Chief Residency - University of Washington Seattle, WA 1993 - 1994

**FELLOWSHIPS**

Trauma and Critical Care - University of Washington Seattle, WA 1994- 1995

**BOARD CERTIFICATION**

Federal Licensure Examination - 1989  
Qualifying Examination of the American Board of Surgery - 10/94  
Certifying Examination of the American Board of Surgery - 6/95  
Examination for Certification of Added Qualifications in Surgical Critical Care -  
10/96

**APPOINTMENTS**

Acting Instructor - Dept of Surgery, University of Washington, 7/94-6/95  
Assistant Professor of Surgery - Texas Tech University Health Science Center, 3/96-10/99  
Clinical Assistant Professor of Surgery - Uniformed Services University of the Health Sciences, 2/96-Present  
Assistant Professor of Surgery – Baylor College of Medicine, 10/99-11/01  
Professor of Surgery – Oregon Health & Science University, 7/08-Present  
Major United States Army Reserve 2004 – 2007  
Lieutenant Colonel United States Army Reserve 2007- 2012  
Colonel United States Army Reserve 2012 – Present  
Professor Physiology and Pharmacology – Oregon Health & Science University, 2014 – Present  
Senior Scientist in the OHSU Center for Regenerative Medicine under the Senior Vice President for Research, 2014 – Present  
Adjunct Professor of Surgery, Uniformed Services of the Health Sciences, 2021 - Present

## **LICENSURE**

To Practice Medicine in the State of Oregon – MD23540

## **MILITARY TRAINING**

Army Officer Basic Course - Silas B. Hays Army Hospital Fort Ord, California 1985  
US ARMY Airborne Course - Fort Benning, GA 1986  
ATLS - Fort Sam Houston, TX 1989  
ATLS Instructor - Fort Carson, CO 1996  
ATLS Director - Fort Sam Houston, TX 1997  
ATLS State Faculty – WBAMC 1999  
Armed Forces Combat Casualty Care Course - Fort Sam Houston, TX 1989  
Instructor Bushmaster Course - Camp Bullis, TX 1996  
Combat Trauma Surgical Team - Ben Taub General Hospital September 1998  
Commander Combat Trauma Surgical Team – Ben Taub General Hospital February 1999  
Director Army Military Civilian Trauma Team Training Program (AMCT3)– Oregon Health & Science University 2018 - Present

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

Alpha Omega Alpha Honor Society  
American College of Surgeons - Fellow  
Washington State Chapter of the American College of Surgeons 1994-1995  
The Henry N. Harkins Surgical Society  
Associate Member of the American College of Surgeons Washington

Committee on Trauma 1994-1995  
Member of Harborview Medical Center Trauma Council 1994-1995  
Eastern Association for the Surgery of Trauma  
American Association for the Surgery of Trauma  
American Trauma Society  
Association for Academic Surgery – Active Member  
Society of Critical Care Medicine  
The Shock Society  
Oregon State Chapter of the American College of Surgeons  
President – Oregon Chapter of the Society of Critical Care Medicine 2003 – 2004  
Western Trauma Association  
Society of University Surgeons  
Secretary - Treasurer Portland Surgical Society 2004 - 2008  
Pacific Coast Surgical Association  
North Pacific Surgical Association  
President - Portland Surgical Society 2008 – 2009  
Society of Clinical Surgeons  
American Surgical Association  
Western Surgical Association  
International Surgical Society  
International Association for Trauma Surgery and Critical Care

## **COMMITTEE MEMBERSHIPS**

Special Care Line Action Team - William Beaumont Army Medical Center 1995-1999  
Chief, Trauma Committee – William Beaumont Army Medical Center 1997-1999  
Human Use Subcommittee - William Beaumont Army Medical Center 1995-1999  
Institutional Animal Care and Use Committee – William Beaumont Army Medical Center 1995-1999  
Breast Cancer Prevention and Detection Action Team, Military Region VII 1995-1996  
Trauma Research Program - William Beaumont Army Medical Center 1996-1999  
Far West Texas and Southern New Mexico Regional Area Council on Trauma 1996-1999  
Chairman Hospital Audit Committee of the Far West Texas and Southern New Mexico Regional Area Council on Trauma 1997-1999  
Executive Board of the Far West Texas and Southern New Mexico Regional Area Council on Trauma 1997-1999  
Research Committee - R. E. Thomason General Hospital 1997-1999  
Military Combat Trauma Surgical Committee 1997-1999  
Publication Committee for Gary P. Wratten Surgical Symposium 1999

Chairman, Trauma Morbidity and Mortality Committee Ben Taub General Hospital 1999 – 2001  
Trauma Executive Committee Ben Taub General Hospital 1999 – 2001  
Pharmacy and Therapeutic Committee Harris County Hospital District 1999 – 2001  
Southeast Texas Regional Advisory Committee 1999 – 2001  
Process Improvement Subcommittee of the Southeast Texas Trauma Regional Advisory Committee 1999 – 2001  
Chairman of the Grants Committee of the Southeast Texas Trauma Regional Advisory Committee 2000 – 2001  
Trauma Center Grant Steering Committee – Baylor College of Medicine 2000 – 2001  
Baylor College of Medicine’s Graduate Medical Education Committee 2000 – 2001  
American College of Surgeons South Texas Committee on Trauma 2001  
Member of the Policy on House Staff Review Subcommittee of the Baylor College of Graduate Medical Education Committee 2001  
Residency Internal Review Subcommittee of the Baylor College of Medicine’s Graduate Medical Education Committee 2001  
Eastern Association for the Surgery of Trauma Practice Guideline Committee on Endpoints of Resuscitation 2001 – 2003  
Trauma Committee – Oregon Health & Science University 2002 – Present  
Trauma Peer Review Subcommittee - Oregon Health & Science University 2002 – Present  
Department of Surgery Peer Review Committee – Oregon Health & Science University 2002 - Present  
Eastern Association for the Surgery of Trauma Practice Guideline Committee on Hypothermia 2002 – 2004  
Oregon Committee on Trauma 2002 – Present  
Restraint and Seclusion Committee – Oregon Health & Science University 2002 – 2004  
ICU Executive Management Committee – Oregon Health & Science University 2002 – 2014  
Radiology Task Force Committee – Oregon Health & Science University 2003  
Faculty Senate – Oregon Health & Science University 2003 - 2006  
Data Safety Monitoring Board - Dr. Eileen Bulger, The Effect of Hypertonic Resuscitation for Blunt Trauma. IND Number: 10292 2003 - 2005  
Area Trauma Advisory Board One in Oregon 2003 - 2005  
Oregon State Trauma Advisory Board 2004 – Present  
Research Committee – Oregon Health & Science University 2004 – Present  
Sedation Oversight Committee - Oregon Health & Science University 2005 – 2007  
Eastern Association for the Surgery of Trauma Publications Committee 2005 – 2007  
Publications Committee - Western Trauma Association 2005 - 2007

Steering Committee for the U.S. Army Institute of Surgical Research Clinical Trials Program, U.S. Army Medical Research and Materiel Command, Fort Detrick, Maryland 2005 - Present  
Eastern Association for the Surgery of Trauma Taskforce on Research Related Issues 2006 –2010  
State Chair for the Oregon Committee on Trauma 2006 – 2012  
American College of Surgeons Committee on Trauma 2006 – 2018  
Transfusion Committee – Oregon Health & Science University 2006 – 2008  
American College of Surgeons Subcommittee on ATLS 2006 – Present  
Clinical Resource Management Committee – Oregon Health & Science University 2010 - Present  
American College of Surgeons Ad Hoc Committee on Trauma System Evaluation and Planning 2006 – Present  
8CSI Best Practice Committee – Oregon Health & Science University 2006 – 2009  
Oregon State Trauma Advisory Board Legislative Subcommittee 2006 - Present  
Trauma Audit Group, Area Trauma Advisory Board 1 2006 – Present  
Dean’s Pathology Advisory Group – Oregon Health & Science University 2007  
Eastern Association for the Surgery of Trauma Military Committee 2007 – Present  
Chairman of the Eastern Association for the Surgery of Trauma Task Force on Research Related Issues 2008 – 2011  
American Association for the Surgery of Trauma Acute Care Surgery Committee 2009 – Present  
Western Trauma Association Program Committee 2009 – 2010  
OHSU Department of Surgery Promotion and Tenure Committee 2009 – Present  
Department of Surgery Quality Executive Committee 2008 – Present  
Eastern Association of Trauma Practice Management Guidelines Committee 2010 – 2011  
Promotion and Tenure Committee, Department of Surgery – Oregon Health & Science University 2010 – Present  
Clinical Resource Management Committee – Oregon Health & Science University 2010 - Present  
Eastern Association for the Surgery of Trauma – Nominations Committee 2011  
Chairman of the ICU Management Committee – Oregon Health & Science University 2011 – 2013  
American Association for the Surgery of Trauma Ad Hoc Educational Development/MOC Committee 2011 – 2013  
Chief, Region X Committee on Trauma 2012 – Present  
Western Trauma Association Board of Directors 2013 - 2016  
Trauma Center Association of America Board of Directors 2013 – Present  
Oregon District #1 Committee on Applicants of the American College of Surgeons 2014 – Present  
Board of Governors of the American College of Surgeons 2014 – 2020  
Shock Society – Publications Committee, 2015 – Present

Patient Blood Management Standards Committee, American Association of Blood Banks, 2016 – 2019  
Committee on Surgical Combat Casualty Care, 2016 – Present  
Vice-Chair Grassroots Advocacy Engagement Workgroup, American College of Surgeons, Board of Governors, 2016 – 2017  
Chair Grassroots Advocacy Engagement Workgroup, American College of Surgeons, Board of Governors, 2017 – 2019  
Chairman Military-Civilian Subcommittee, Trauma Center Association of America, 2017 – 2019  
Chairman Advocacy Committee, Board of Governors, American College of Surgeons, 2019 - 2020  
Member Blood Product Advisory Council, FDA, 2018 – Present  
Member Tactical Combat Casualty Care Subject Matter Expert Panel, 2018 – Present  
Chairman, Research Committee, Committee on Surgical Combat Casualty Care 2019 - Present  
Chairman Trauma Center Association of America, 2020 – 2022  
Chairman Donald D. Trunkey Center for Civilian and Combat Casualty Care Executive Committee, 2020 – Present  
Committee on Accelerating Progress in TBI Research and Care, National Academy of Science, Engineering and Medicine, 2020 – 2021  
Clotting Anticoagulation Transfusion Committee, OHSU, 2022 – Current

## **POSITIONS HELD**

Chief, Dept of Surgery, Joint Task Force – Bravo Honduras, C.A. 1997  
Chief of Surgery 31st Combat Support Hospital 1998 - 1999  
General Surgery Staff- William Beaumont Army Medical Center, Medical Director of the Surgical Intensive Care Unit and Chief of Trauma William Beaumont Army Medical Center 1995-1999  
General Surgery Staff – Ben Taub General Hospital 1999 - 2001  
Trauma Medical Director, Ben Taub General Hospital 1999 – 2001  
General Surgery Staff – Oregon Health & Science University 2002 - 2003  
Director of Surgical Critical Care, Oregon Health & Science University 2002 – 2007  
Program Director of the Surgical Critical Care Fellowship, Oregon Health & Science University 2003 - 2010  
Surgeon - International Medical Surgical Team West 2004 - Present  
Chief of Trauma, 228<sup>th</sup> Combat Support Hospital – Tikrit, Iraq 2005  
Chief of Trauma and Surgical Critical Care, Oregon Health & Science University 2007 – 2009  
Chief and Founder Division of Trauma, Critical Care and Acute Care Surgery, Oregon Health & Science University 2009 – Present  
Director of Adult ICUs, Oregon Health & Science University 2010 – 2014

Director of the Joint Theater Trauma System, United States Central Command in Iraq and Afghanistan stationed in Bagram, Afghansitan 2010  
Surgeon, 932<sup>nd</sup> Forward Surgical Team, Shank, Afghanistan 2014  
Director Donald D. Trunkey Center for Civilian and Combat Casualty Care 2020  
– Present  
Chair, Division Chief search for Transplant Surgery at OHSU 2022

## HONORS AND AWARDS

High School - National Honor Society  
Undergraduate - Dean's List 1980 - 1984  
Graduated from University of Chicago With Honors 1984  
Effects of IL - 2 and IFN on Hepatic Metastases - American Cancer Society  
Student Fellowship 1988  
Lubrizol Award for Excellence in Patient Care - Case Western 1988  
Henry N. Harkins Award for Excellence in Preparation of the Annual Residents' Paper - Washington State Chapter of the ACS 1989  
Bulldog Award - Children's Hospital 1992  
Joint Service Commendation Award - Honduras 1997  
Army Achievement Medal - For being WBAMC's Project Officer for the Ben Taub Combat Trauma Surgical Training Program 1999  
Army Achievement Medal - Quality Improvement Award 1999  
Army Achievement Medal - For Patient Care 1999  
Meritorious Service Medal – For Establishing a Verified and Designated Level 2 Trauma Center at William Beaumont Army Medical Center 1999  
National Leadership Award – Honorary Co-Chairman of The Physician's Advisory Board 2001  
Army Commendation Medal – For Service as Chief of Trauma of the 228<sup>th</sup> CSH Tikrit, Iraq 2005  
Iraqi Campaign Medal – For Service in Operation Iraqi Freedom 2005  
Army Reserve Medal with M device – For 10 years of service in the Army Reserves with Mobilization to Iraq 2005  
American Association for the Surgery of Trauma Honorary Medal for Combat Surgical Care 2005  
Meritorious Unit Commendation Award – For Meritorious Service of the 228<sup>th</sup> Combat Support Hospital During Operation Iraqi Freedom III 2006  
Oregon Health & Science University Faculty Senate Certificate of Appreciation, In recognition of vision, leadership and support of the faculty 2006  
Veterans of Oregon Honorable Service Medal 2006  
Distinguished Faculty Award – Oregon Health & Science University Dept of Surgery 2007  
World Journal of Surgery Best Paper of 2007 – Coagulopathy: Its Pathophysiology and Treatment in the Injured Patient  
Portland Monthly Magazine Top Doctors 2010, 2012, 2013  
Non-Article 5 NATO Medal for Service with NATO in Relation to International Security Afghanistan Forces August 2010

Afghanistan Campaign Medal in Recognition of Service in the Country of Afghanistan in Direct Support of Operation Enduring Freedom August 2010  
Global War on Terrorism Service Medal-For support of the Global War on Terrorism August 2010  
Joint Service Commendation Medal-For Meritorious Service Rendered During Operation Enduring Freedom August 2010  
Certificate of Achievement-Task Force 62 Medical-For Outstanding Performance while Serving as Director, Joint Theater Trauma System, United States Central Command in Iraq and Afghanistan August 2010  
The “A” Proficiency Designator in recognition of outstanding qualification in the field of General Surgery and continued demonstration of exceptional professional ability June 2011  
Marquam Hill Faculty Teaching Award – Oregon Health & Science University, Department of Surgery 2011  
Professional Staff Chair’s Award for Outstanding Contributions to Development of Interdisciplinary Teams – Oregon Health & Science University 2011  
Inducted into The Order of Military Medical Merit for Distinguished Military Service September 2012  
Army Achievement Medal for meritorious service while serving as a Burn Surgeon at the US Army Institute of Surgical Research 2013  
Army Commendation Medal for exceptionally meritorious service as a General Surgeon while deployed in support of Operation Enduring Freedom June 2014  
Afghanistan Campaign Medal in Recognition of Service in the Country of Afghanistan in Direct Support of Operation Enduring Freedom June 2014  
Technology Transfer & Business Development Award for Oregon Procedure Quality Reporting System (OPQRS) and Healthcare Team Learning Management Platform October 2015  
Asmund S. Laerdal Memorial Lecture Award for Extensive Involvement in Resuscitation Research and Publishing. Society of Critical Care Medicine February 2016  
Journal of Trauma – Outstanding Reviewer Award, 2016  
Marquam Hill Distinguished Service Award – Oregon Health & Science University Dept of Surgery 2017  
2018 Lifetime Achievement Award in Trauma Resuscitation Science – American Heart Association  
Meritorious Service Medal for Creating the Army Military Civilian Trauma Training Team at OHSU 2019  
OHSU Continuing Professional Development Clinical Star Award 2018 – 2019, Awarded 2020  
Robert Danis Prize – Given to the **surgeon**, author of the most important and personal work in connection with surgical treatment of fractures (orthopedic treatment excluded) and in connection with techniques, clinics or experimentation of fracture treatment and with the pathophysiology of trauma in general. 2022  
John. P. Pryor, MD FACS Distinguished Service Award in Military Casualty Care. 2023

## EDITORIAL BOARD MEMBERSHIPS

Journal of Trauma and Acute Care Surgery  
Shock  
Current Trauma Reports – 2017 – 2019  
PLOS Medicine

#### **AD HOC REVIEWER FOR JOURNALS**

Critical Care Medicine  
Pediatric Blood and Cancer  
World Journal of Surgery  
Anesthesiology  
Journal of the American College of Surgeons  
Journal of Thrombosis and Hemostasis  
New England Journal of Medicine  
Resuscitation  
Critical Care  
Annals of Surgery  
American Journal of Surgery  
Transfusion  
Injury  
Plos One

#### **INSTRUCTOR COURSES**

Advanced Trauma Life Support – National Faculty  
Definitive Surgical Trauma Care Course – Course Director  
Stop the Bleed  
Fundamental Critical Care Support

#### **REVIEWER FOR GRANTS**

American Institute of Biological Sciences  
NIH Surgery, Anesthesia, Trauma Review Section, Special Member  
ZRG1 ETTN-U 82 S, Special Topics: USU Intramural High Priority Research  
Awards, National Institutes of Health, Bethesda, MD

#### **MEMBER DATA SAFETY MONITORING BOARD**

The Effect of Hypertonic Resuscitation for Blunt Trauma, Primary Investigator - Dr. Eileen Bulger, IND Number: 10292.

Chair DSMB, Control of Major Bleeding after Trauma (COMBAT) Study: A Prospective Randomized Comparison of Fresh Frozen Plasma Versus Standard

Crystalloid Intravenous Fluid for Initial Resuscitation. Primary Investigator – Dr. Eugene Moore.

## ONGOING RESEARCH SUPPORT

US Army Medical Research Acquisition Activity W81XWH-14-2-0003 Gregory (PI)  
**Armed Forces Institute for Regenerative Medicine (AFIRM) II Program**

The goal of this study is determine the efficacy of infused bone marrow derived stem cells on regeneration of muscle tissue in patients with compartment syndrome.

Role on Project: Co-investigator (2014 – 2023)

BA150560 US Army Medical Research Acquisition Activity  
**Mesenchymal Stem Cells for the Prevention of Acute Respiratory Distress Syndrome after Pulmonary Contusion and Hemorrhagic Shock.**

The goal of this research is to determine if mesenchymal stem cells infused intravenously can prevent ARDS in a model of hemorrhagic shock and unilateral pulmonary contusion.

Role on Project: Principal Investigator (2016 – 2023)

DM160342 US Army Medical Research Acquisition Activity  
**Prothrombin Complex Concentrate for Prolonged Field Care of War Casualties**

The purpose of this research is to determine of prothrombin complex concentrate can prevent ARDS in a swine model of hemorrhagic shock and pulmonary contusion.

Role on Project: Principal Investigator (2017 – 2024)

W81XWH-16-R-0033 Department of Defense, Joint Program Committee-6 Combat Casualty Care.

**Linking Investigations in Trauma and Emergency Services (LITES)**

The purpose of this research is to create a network of trauma centers to execute trauma research of interest to the Department of Defense.

Role on Project: Co-Principal Investigator (2016 – 2023)

RFA-NS-16-016 NIH

**Network for Emergency Care Clinical trials: Strategies to Innovate Emergency Care Clinical Trials Network (SIREN) – Network Clinical Center (HUB) (U24)**

This is a network of major medical centers designed to execute NIH funded trials in the areas of emergency medicine and trauma.

Role on Project: Trauma Principal Investigator (2017 – 2023)

W81XWH-17-1631 US Army Medical Research and Materiel Command

**Mesenchymal Stem Cells for Treatment of ARDS Following Trauma**

This is a multicenter randomized trials comparing mesenchymal stem cells to placebo for the treatment of ARDS in critical care patients.

Role on Project: Site Principal Investigator (2017 – 2020)

CSL Behring

**Prothrombin Complex for the Treatment of Prehospital Traumatic Hemorrhagic Shock**

This is an investigator initiated multicenter trial comparing prothrombin complex concentrate to placebo for the prehospital care of patients with traumatic hemorrhagic shock. Role on Project: Principal Investigator (2017 – 2021)

**COMPLETED RESEARCH SUPPORT**

US Army Medical Research and Materiel Command DAMD17-01-1-0693  
1999-2001

**The Effect of Recombinant Factor VIIa and Fibrinogen on Bleeding from Grade V Liver Injuries in Coagulopathic Swine**

This study is designed to evaluate the efficacy of Factor VIIa in swine models of hemorrhagic shock.

Role on Project: Principal Investigator (1999 – 2001)

5 M01 RR00334 (GCRC-772)

**Coagulation Parameters after Splenectomy in Trauma Patients**

This study is designed to determine the effects of splenectomy on coagulation parameters both early after injury and at 6 weeks.

Role on Project: Principal Investigator (2005 – 2008)

Office of Naval Research

**The Characterization of a Novel Fibrinogen Hemostatic Agent in Animal Models**

This study is designed to test the efficacy of a novel fibrinogen agent in stopping bleeding from a rat liver injury.

Role on Project: Co-Investigator (2006 – 2008)

Entek Manufacturing, Inc.

**The Efficacy of a Novel Hemostatic Bandage for Control of Hemorrhage from a Severe Grade V Liver Injury in Swine.**

The purpose of this study is to test the efficacy of a new highly porous, silica based dressing in stopping bleeding from a Grade V Liver Injury in Swine

Role on Project: Primary Investigator (2006 – 2008)

SAM Medical

2009

**A Comparison of Hemostatic Dressings in a Severe Groin Injury Model in Swine**

The purpose of the proposed study is to perform a randomized controlled trial comparing Combat Gauze to Celox-Gauze to Celox-D to standard gauze for hemorrhage control of a severe groin injury created in Yorkshire crossbred swine

Role on Project: Principal Investigator (2009)

U. S. Army Medical Research and Materiel Command W81XWH-04-1-0104

**The Effect of Hypotensive Resuscitation and Fluid Type on Mortality, Bleeding, Coagulation and Dysfunctional Inflammation in a Swine Grade V Liver Injury Model**

The purpose of this study is to determine the optimal resuscitation strategy in terms of resuscitation endpoints and fluids in an uncontrolled hemorrhage model in swine.

Role on Project: Principal Investigator (2003 – 2011)

5 M01 RR00334 (GCRC-946)

**Can TEG be used in place of anti-factor Xa levels to assess enoxaparin levels in patients with co-morbidities?**

This project is designed to determine if thrombelastograms can be used to determine the effect of lovenox in a diverse patient population to include patients with renal failure and obesity

Role on Project: Principal Investigator (2005 – 2011)

U.S. Army Medical Research Acquisition Act W81XWH-08-C-0712 (subcontract)

**Prospective Observational Multicenter Massive Transfusion Study (PROMMTT)**

The purpose of this study is to observe and document clinical practice for major trauma patients admitted to the ED who are at risk of massive transfusion.

Role of project: Site Principal Investigator, Chairman of the Publication Committee (2009 – 2012)

US Air Force Material Command/AFMC FA8650-09-2-6047

**Efficacy and Safety of Frozen Blood for Transfusion in Trauma Patients**

The purpose of this study is to evaluate tissue oxygenation, nitric oxide, and morbidity and mortality with use of cryopreserved blood compared to standard blood.

Role of project: Principal Investigator (2009 – 2012)

Medical Research Foundation of Oregon

**Thrombelastography-Based Dosing of Enoxaparin for Thromboprophylaxis: A Prospective Randomized Trial**

This project is designed to determine if thrombelastograms can be used to determine the effect of lovenox in a diverse patient population to include patients with renal failure and obesity.

Role on project: Co-Investigator (2005 – 2012)

US Air Force Material Command/AFMC FA8650-10-2-6143

**Efficacy and Safety of Frozen Blood for Transfusion in Trauma Patients – A Multi-Center Trial**

The purpose of this study is to evaluate tissue oxygenation, nitric oxide, and morbidity and mortality with use of cryopreserved blood compared to standard blood at 6 clinical sites.

Role of project: Principal Investigator (2010 – 2014)

CORA/MED

**Trauma Equivalency Study of the CORA® and TEG® 5000 Systems**

The purpose of this study is to compare the novel CORA (Coagulation Resonance Analyzer) system with the standard commercially available TEG 5000 system in trauma patients with a broad variety of coagulopathies.

Role on Project: Primary Investigator (2015)

**Thrombelastography (TEG) Based Dosing of Enoxaparin for Thromboprophylaxis:**

**A Prospective Randomized Trial** This is a multicenter prospective randomized trial designed to determine if TEG based dosing of enoxaparin is superior to standard dosing with respect to a reduction of thromboembolic complications without an increase in bleeding complications. Role on Project: Principal Investigator (2011-2015)

U01 HL077863-06S2 National Institute of Health Lung and Blood Institute (NIHLBI)  
Holcomb (PI)

**Prospective, Randomized Optimal Platelet and Plasma Ratios (PROPPR)**

This is a multi-center project being performed in a prospective randomized format comparing the efficacy and safety of plasma, platelets and packed red blood cells given in a 1:1:1 ratio versus a 1:1:2 ratio.

Role on Project: Primary Investigator, OHSU (2011 – 2016)

1549586 National Science Foundation (NSF)

**Tissue Factor-Impregnated Dressing for Hemorrhage Control**

The goal of this research is to determine if the utilization of tissue factor as a procoagulant on gauze is superior to dressings currently in use for hemorrhage control.  
Role on Project: Principal Investigator (2016)

HL-04-001, National Heart, Lung and Blood Institute (NHLBI) Daya (PI)

**Portland Emergency Prehospital Investigative Consortium (EPIC)**

This is a multicenter trial designed to conduct a series of studies related to the initial management of trauma and cardiac arrest patients.

Role on Project: Trauma Primary Investigator (2004 – 2018)

U10 National Institutes of Neurological Disorders and Stroke (NINDS) Barsan (PI)

**Brain Research/Acute Interventions: Neurological Emergencies Treatment Trial**

This is a multicenter project designed to perform pivotal trials evaluating therapeutics with the potential to improve outcomes after neurological emergencies.

Role on project: Co-Investigator (2009 – 2018)

US Army Medical Research Acquisition Activity ERMS #1333504

**Prehsopital Tranexamic acid Use for Traumatic Brain Injury**

This is a multi-center project designed to determine the efficacy of tranexamic acid in improving outcomes after traumatic brain injury.

Role on Project: Clinical Principle Investigator (2013 – 2018)

HHSN263210300003C National Institutes of Health (NIH)

**Predictors of Post-Traumatic Stress Disorder**

This is a multi-center study that is designed to identify patients who are at risk for developing PTSD. This study includes an epigenetic component seeking to find biochemical markers predictive of the development of PTSD.

Role on Project: Primary Investigator (2013 – 2018)

U01 HL077863 National Heart Lung and Blood Institute (NHLBI) May (PI)

**Prehospital Resuscitation on Helicopter Study**

This is a prospective, observational, multi-center trial designed to determine the benefits of delivering blood products in the pre-hospital setting during air transport. Air ambulances that carry blood products will be compared to those that do not.

Role on Project: Primary Investigator, OHSU (2014 – 2018)

Grifols Investigator Sponsored research

**Is Anti-Thrombin III Deficiency Associated with Deep Vein Thrombosis in Surgical and Trauma Patients?**

This is a prospective observational study designed to determine if anti-thrombin III is associated with deep vein thrombosis in trauma patients.

Role on Project: Primary Investigator (2015 – 2018)

**Trauma/Critical Care Fellows Trained**

1. Samuel Rob Todd, MD 2002 - 2003
2. Danetta Sue Sloane, MD 2002 - 2003
3. Jennifer Watters, MD 2004 - 2005
4. Miko Enomoto, MD 2004 – 2005
5. Bruce Ham, MD 2005 – 2006
6. Nicole Vanderhayden, MD PhD 2005 – 2006
7. Susan Rowell, MD 2006 – 2007
8. Laszlo Kiraly, MD 2006 – 2007
9. Arvin Gee, MD 2007 – 2008
10. David Shapiro, MD 2007 – 2008
11. Richard Nahouraii, MD 2008-2009
12. Stephanie Gordy, MD 2008-2009
13. Carrie Allison, MD 2008-2009
14. Michael Englehart, MD 2009-2010
15. Dan Anderson, MD 2009-2010
16. Mary Claire Sarff, MD 2009-2010

**Laboratory Residents Mentored**

1. Jennifer Watters, MD 2003 - 2004
2. Rebecca Sawai, MD 2004 - 2005
3. Tracy Wiesberg, MD 2004 – 2005
4. Laszlo Kiraly, MD 2005 – 2006
5. Brandon Tieu, MD 2005 – 2007
6. Michael Englehart, MD 2005 – 2007
7. Arvin Gee, MD 2006 – 2007
8. Melanie Morris, MD 2006 – 2007
9. David Cho, MD 2006 – 2008
10. Carrie Hink, MD 2007 – 2008
11. Karen Zink, MD 2007 – 2008

12. Chitra Sambasivan, MD 2008 – 2009
13. Nicholas Spoerke, MD 2008 – 2009
14. Philbert Van, MD 2008 – 2010
15. Modjgan Keyghobadi, MD 2009 – 2010
16. Gordon Riha, MD 2010 – 2011
17. Nicholas Kunio, MD 2010 – 2011
18. Tim Lee, MD 2011 – 2013
19. Jeffrey Barton, MD 2011 – 2012
20. Loic Fabricant, MD 2011 – 2012
21. David Hampton, MD 2012 – 2013
22. Sean McCully, MD 2012 – 2014
23. Scott Louis, MD 2012 – 2013
24. Alexis Moren, MD 2013 – 2014
25. Kelly Fair, MD 2013 – 2014
26. David Martin, MD 2013 – 2015
27. Mackenzie Cook, MD 2013 – 2014
28. Vicente Undurraga, MD 2013 – 2015
29. Christopher Connelly, MD 2014 – 2015
30. Davis Yonge, MD 2014 – 2015
31. Justin Watson, MD 2014 - 2015
32. Aravind Bommiasamy, MD 2015 – 2016
33. Brandon Behrens, MD 2016 – 2017
34. Sawyer Smith, MD 2016 – 2018
35. Alix Dixon, MD 2018 – 2019
36. Sarayu Subramania 2019 – 2021
37. Marissa Beiling, MD 2021 – 2022
38. Samantha Durbin, MD 2022 - 2023

#### **Laboratory Fellows and Post-Docs Mentored**

1. Modjgan Keyghobadi, MD 2004 – 2006
2. Ayhan Karahan, MD 2006 – 2007
3. Gopal Singh, MD 2007 – 2008
4. Igor Kremenevskiy, MD, PhD 2008-2012
5. Dinh-Tuan Le, MD 2012
6. Belinda McCully, PhD 2012 – 2018
7. Amonpon Kanlerd, MD 2018 – 2019

#### **PUBLICATIONS**

1. Samuels, R. **Schreiber MA**, Patel, N, Hemobilia After a Gunshot Injury to the Liver. American Journal of Radiology 1996; 166:1304.
2. **Schreiber MA**, Gentilello LM, Rhee P, Jurkovich GJ, Maier RV, Limiting Computed Tomography to Patients With Peritoneal Lavage Positive Results

Reduces Cost and Unnecessary Celiotomies in Blunt Trauma. Arch Surg 1996; 131:954-959.

3. **Schreiber MA**, Gentilello LM, Rhee P, Jurkovich GJ, Maier RV, Blunt Trauma: Limiting CT to Patients with Peritoneal Lavage, Reducing Costs and Unnecessary Celiotomies. Chirurgia International 1997;4:14-16.
4. **Schreiber MA**, Pusateri AE, Veit BC, Smiley RA, Morrison CA, Harris A, Timing of Vaccination Does not Affect Antibody Response or Survival Following Pneumococcal Challenge in Splenectomized Rats. The Journal of Trauma 1998; 45:692-699.
5. Morrison CA, **Schreiber MA**, Olsen SB, Hetz SP, Acosta MM, Femoral Venous Flow Dynamics During Intraperitoneal and Preperitoneal Laparoscopic Insufflation. Surgical Endoscopy 1998; 12: 1213-1216.
6. Nessen S, Holcomb JB, Tonkinson B, Hetz SP, **Schreiber MA**, Early Laparoscopic Nissen Fundoplication for Recurrent Reflux Esophagitis: A Cost Effective Alternative to Omeprazole. Journal of the Society of Laparoscopic Surgery 1999; 3: 103-106.
7. Gerhardt RT, Stewart T, De Lorenzo RA, Gourley EJ, **Schreiber MA**, McGhee JS. Air Medical Transport by a US Army Air Ambulance Unit Under the Military Assistance to Safety and Traffic (MAST) Program in El Paso, Texas: A Cross-sectional Study and Program Review. Prehospital Emergency Care 2000;4:136-143.
8. Taylor SF, Kopchinski B, **Schreiber MA**, Singleton L,. Trauma Patient Outcome in an Army Deployable Medical Systems Environment Compared with a Medical Center. Military Medicine; 2000; 165:867-869.
9. Gourley EJ, **Schreiber MA**, Gerhardt RT, Stewart TR. Military Assistance to Safety and Traffic (MAST) Services in El Paso: A Retrospective Analysis. Military Medicine; 2000; 165:870-874.
10. Granchi TS, Schmittling ZC, Vasquez J, **Schreiber MA**, Wall MJ. Prolonged Use of Intraluminal Arterial Shunts Without Systemic Anticoagulation. The American Journal of Surgery; 2000; 180:493-497.
11. Aoiki N, Wall MJ, Demsar J, Zupan B, Granchi T, **Schreiber MA**, Holcomb JB, Byrne M, Liscum K, Goodwin G, Beck JR, Mattox K. Predictive Model for Survival at the Conclusion of a Damage Control Laparotomy. The American Journal of Surgery; 2000; 180:540-545.

12. **Schreiber MA**, Coburn M, Penetrating Pellet Injury of the Kidney Presenting with Complete Urinary Obstruction. *The Journal of Trauma*. 2001;50:1144-1146.
13. Gerhardt RT, Stewart T, De Lorenzo RA, McGhee JS, Gourley EJ, **Schreiber MA**. US Army Air Ambulance Operations in El Paso, Texas: A Descriptive Study and System Review. *Military Medicine*; 2001; 166:102-107.
14. **Schreiber MA**, Holcomb JB, Hedner U, Brundage SI, Macaitis JM, Hoots K. The Effect of Recombinant Factor VIIa on Coagulopathic Pigs with Grade V Liver Injuries. *Journal of Trauma*. 2002;53:252-259.
15. Brill SA, Stewart TR, Brundage SI, **Schreiber MA**. Base Deficit Does not Predict Mortality When it is Secondary to Hyperchloremic Acidosis. *Shock*. 2002;17:459-62.
16. **Schreiber MA**, Holcomb JB, Conaway CW, Campbell KD, Wall M, Mattox KL. Military Trauma Training Performed in a Civilian Trauma Center. *Journal of Surgical Research*. 2002;104:8-14.
17. **Schreiber MA**, Aoki N, Scott BG, Beck JR. Determinants of Mortality in Patients with Severe Blunt Head Injury. *Archives of Surgery*. 2002; 137:285-290.
18. Tyroch AH, Kaups KL, Lorenzo Manuel, Solis D, **Schreiber MA**. Routine Chest Radiograph is not Indicated After Open Tracheostomy: A Multi-center Perspective. *The American Surgeon*. 2002; 68:80-82.
19. **Schreiber MA**, Holcomb JB, Hedner U, Brundage SI, Macaitis JM, Aoki N, Meng ZH, Tweardy DJ, Hoots K. The Effect of Recombinant Factor VIIa on Non-Coagulopathic Pigs with Grade V Liver Injuries. *Journal of the American College of Surgeons*. 2003; 196:691-697.
20. Brundage SI, **Schreiber MA**, Holcomb JB, Zautke N, Mastrangelo MA, Xu XQ, Macaitis JM, Tweardy DJ. Amplification of the Pro-Inflammatory Transcription Factor Cascade Increases with Severity of Uncontrolled Hemorrhage in Swine. *Journal of Surgical Research*. 2003; 113:74-80.
21. **Schreiber MA**. Damage Control Surgery. *Critical Care Clinics*. 2004; 20:101-118.
22. Watters JM, Brundage SI, Todd SR, Zautke NA, Stefater JA, Lam JC, Muller PJ, Malinoski D, **Schreiber MA**. Resuscitation with Lactated Ringer's Does Not Increase Inflammatory Response in a Swine Model of Uncontrolled Hemorrhagic Shock. *Shock*. 2004; 22:283-287.

23. Brundage SI, Zautke NA, Watters JM, Stefater JA, Todd SR, Lam JC, **Schreiber MA**. Lactated Ringer's Does Not Increase Inflammation after Shock. 6th World Congress on Trauma, Shock, Inflammation and Sepsis. 2004; EC302C0210:151-155.
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25. **Schreiber MA**, Differding J, Thorborg P, Mayberry JC, Mullins RJ. Hypercoagulability is Most Prevalent Early After Injury and in Female Patients. *Journal of Trauma*. 2005; 58:475-481.
26. Dorlac WC, Debakey ME, Holcomb JB, Fagan SP, Kwong KL, Dorlac GR, **Schreiber MA**, Persse DE, Moore FA, Mattox KL. Mortality from Isolated Civilian Penetrating Extremity Injury. *Journal of Trauma*. 2005;59:217-222.
27. Macht M, Rizvi A, **Schreiber MA**, Wilson WS. Impalement with Spinal Cord Injury Requiring Intraoperative Division of a Reinforced Steel Bar. *European Journal of Trauma*. 2005;31:503-507.
28. Malinoski DJ, Todd SR, Sloane S, Mullins RJ, **Schreiber MA**. Correlation of Central Venous and Arterial Blood Gas Measurement in mechanically Ventilated Trauma patients. *Archives of Surgery*. 2005;140:1122-1125.
29. **Schreiber MA**. Coagulopathy in the Trauma Patient. *Current Opinions in Critical Care*. 2005;11:590-597.
30. **Schreiber MA**, Holcomb JB, Rojkjaer R. Preclinical Trauma Studies of Recombinant Factor VIIa. *Critical Care*. 2005; 9 Supplement 5:S25-S28.
31. Todd SR, Malinoski DJ, Muller PJ, **Schreiber MA**. Hextend Attenuates Hypercoagulability Following Severe Injury in Swine. *Journal of Trauma*. 2005;59:589-594.
32. McHenry TP, Mirza SK, Wang J, Wade CE, O'keefe GE, Dailey AT, **Schreiber MA**, Chapman JR. Risk factors for respiratory failure following operative stabilization of thoracic and lumbar spine fractures. *Journal of Bone and Joint Surgery of America*. 2006;88:997-1005.
33. Kiraly LN, Differding JA, Enomoto TM, Sawai RS, Muller PJ, Diggs B, Tieu BH, Englehart MS, Underwood S, Wiesberg TT, **Schreiber MA**. Resuscitation with Normal Saline (NS) vs. Lactated Ringers Modulates Hypercoagulability and Leads to Increased Blood Loss in an Uncontrolled Hemorrhagic Shock Swine Model. *Journal of Trauma*. 2006;61:57-65.

34. Watters JM, Tieu BH, Differding JA, Muller PJ, **Schreiber MA**. A Single Bolus of 3% Hypertonic Saline with 6% Dextran Provides Optimal Initial Resuscitation after Uncontrolled Hemorrhagic Shock. *Journal of Trauma*. 2006;61:75-81.
35. Watters JM, Tieu BH, Todd SR, Jackson T, Muller PJ, Malinoski DJ, **Schreiber MA**. Fluid Resuscitation Increases Inflammatory Gene Transcription Following Traumatic Injury. *Journal of Trauma*. 2006;61:300-309.
36. Malinoski DJ, Mullins RJ, **Schreiber MA**. Venous Blood Oxygen Saturation – Reply. *Archives of Surgery*. 2006;141:716.
37. Rizvi AZ, Sloane DS, **Schreiber MA**. Modulation of the Coagulation Cascade Using Recombinant Factor VIIa and Activated Protein C in a Severely Injured Trauma Patient. *European Journal of Trauma*. 2006;32:399-403.
38. **Schreiber MA**. Invited Commentary, “Re: A Brief Overview of the Acute Respiratory Distress Syndrome”. *World Journal of Surgery*. 2006;30:1835.
39. Englehart M, **Schreiber MA**. Measurement of Acid Base Resuscitation Endpoints: Lactate, Base Deficit, Bicarbonate or What? *Current Opinion in Critical Care*. 2006;12:569-574.
40. Karmy-Jones R, Jurkovich GJ, Velmahos GC, Burdick T, Spaniolas K, Stodd SR, McNally M, Jacoby RC, Link D, Janczyk RJ, Ivascu FA, McCann M, Obeid F, Hoff WS, McQuay N Jr, Tieu BH, **Schreiber MA**, Nirula R, Brasel K, Dunn JA, Gambrell D, Huckfeldt R, Harper J, Schaffer KB, Tominaga GT, Vinces FY, Sperling D, Hoyt D, Coimbra R, Rosengart MR, Forsyth R, Cothren C, Moore EE, Haut ER, Hayanga AJ, Hird L, White C, Grossman J, Nagy K, Livaudais W, Wood R, Zengerink I, Korthbeek JB. Practice Patterns and Outcomes of Retrievable Vena Cava Filters in Trauma Patients. An AAST Multicenter Study. *Journal of Trauma*. 2007;62:17-25.
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42. Todd SR, Malinoski DJ, Muller PJ, **Schreiber MA**. Lactated Ringer's is Superior to Normal Saline in the Resuscitation of Hemorrhagic Shock. *Journal of Trauma*. 2007;62:636-639.
43. Tieu BH, Holcomb JB, **Schreiber MA**. Coagulopathy: Its Pathophysiology and Treatment in the Injured Patient. *World Journal of Surgery*. 2007;31:1055-1065.

44. Teh SH, Sheppard BC, Mullins RJ, **Schreiber MA**, Mayberry JC. Diagnosis and Management of Blunt Pancreatic Ductal Injury in the Era of High-Resolution Computed Axial Tomography. *American Journal of Surgery*. 2007;193:641-643.
45. Perkins JG, **Schreiber MA**, Wade CE, Holcomb JB. Early Versus Late Recombinant Factor VIIa in Combat Trauma Patients Requiring Massive Transfusion. *Journal of Trauma*. 2007;62:1095-1101.
46. **Schreiber MA**, Perkins J, Kiraly L, Underwood S, Wade C, Holcomb JB. Early Predictors of Massive Transfusion in Combat Casualties. *Journal of the American College of Surgeons*. 2007;205:541-545.
47. **Schreiber MA**, Tieu B. Hemostasis in Operation Iraqi Freedom III. *Surgery*. 2007;142:S61-S66.
48. **Schreiber MA**, Zink K, Underwood SA, Sullenberger L, Kelly M, Holcomb JB. A Comparison Between Patients Treated at a Combat Support Hospital in Iraq and a Level 1 Trauma Center in the United States. *Journal of Trauma*. 2008;64:S118-122.
49. Gee AC, Sawaii RS, Differding J, Muller P, Underwood S, **Schreiber MA**. The Influence of Sex Hormones on Coagulation and Inflammation in the Trauma Patient. *Shock*. 2008;29:334-341.
50. **Schreiber MA**, Differding J, Esposito TJ. Research: Questions and Answers from Academic Trauma Surgeons. *Journal of Trauma*. 2008;64:1113-1118.
51. Morris MS, Gee AC, Cho SD, Limbaugh K, Underwood S, Ham B, **Schreiber MA**. Management and Outcome of Pneumatosis Instestinalis. *American Journal of Surgery*. 2008;195:679-683.
52. Kortbeck JB, Al Turki SA, Ali J, Antoine JA, Bouillon B, Brasel K, Brenneman F, Brink PR, Brohi K, Burris D, Burton RA, Chapleau W, Cioffi W, Collet e Silva Fde S, Cooper A, Cortes JA, Eskesen V, Fildes J, Gautam S, Gruen RL, Gross R, Hansen KS Henny W, Hollands MJ, Hunt RC, Jover Navalon JM, Kaufmann CR, Knudson P, Koestner A, Kosir R, Larsen CF, Livaudais W, Luchette F, MaoP, McVicker JH, Meredith JW, Mock C, Mori ND, Morrow C, Park SN, Pereira PM, Pogetti RS, Ravn J, Rhee P, Salamone JP, Schipper IB, Schoettker P, **Schreiber MA**, Smith RS, Svendsen LB, Taha W, van Wijnagaarden-Stephens M, Varga E, Voiglio EJ, Williams D, Winchell RJ, Winter R. Advanced Trauma Life Support, 8<sup>th</sup> Edition, The Evidence for Change. *Journal of Trauma*. 2008;64:1638-1650.
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## INVITED COMMENTARY

1. **Schreiber MA.** War Surgery: Working with Limited Resources in Armed Conflict and Other Situations of Violence, by Christos Giannouand and Marco Baldan. World Journal of Surgery. 2010;34:197.
2. **Schreiber MA.** Commentary on “Multicenter, Randomized, Controlled Clinical Trial of Transfusion Requirements in Critical Care. In: Cohn SM, Feinstein AJ. 50 Landmark Papers Every Trauma Surgeon Should Know. CRC Press, Taylor and Francis Group. Boca Raton, London, New York. Chapter 45; 2019.

## AUDIO PUBLICATIONS

1. **Schreiber MA.** Frozen Blood. Audio-Digest General Surgery (Program Title: Transfusion/Vascular Surgery/Coagulation). Volume 60, Issue 14, July 21, 2013. ISSN 1047-6954.
2. **Schreiber MA.** Debate: Is Prehospital Tranexamic Acid Essential to Patient Well-being? AudioDigest General Surgery 67:03 (February 7) 2020.
3. **Schreiber MA.** DVT Prophylaxis in TBI, Spine and Solid Organ Injuries. AudioDigest General Surgery 68:15 (August 7) 2021.
4. **Schreiber M.** An Overview of Walking Blood Banks. AudioDigest General Surgery 68:20 (October 21) 2021.
5. **Schreiber M.** To Transfer or to Operate: Decisions in Rural Trauma Care. Audio Digest General Surgery 68:21 (November 7) 2021.

## POSTER PRESENTATIONS

1. Watters JM, Muller PJ, Differding JA, **Schreiber MA**, A Single Bolus of 3.5% Hypertonic Saline with Dextran Provides Optimal Resuscitation after Uncontrolled Hemorrhagic Shock - Presented at 2004 Advanced Technology Applications for Combat Casualty Care 2004
2. Malinoski DJ, Slater MS, **Schreiber MA**, Mullins RS. A CPK of 20,000 is a Sensitive Predictor of Myoglobinuric Renal Failure after Traumatic Rhabdomyolysis - Presented at the 62nd meeting of The American Association for the Surgery of Trauma. 2003
3. Brundage SI, **Schreiber MA**, Holcomb JB, Zautke NA, Mastrangelo MA, Xu XQ, Macaitis JM, Tweardy DJ. Recombinant Activated VII for Adjunctive

Hemorrhage Control Reduces Nuclear Factor Kappa Beta Activation in a Hypothermic Coagulopathic Swine Model of Uncontrolled Hemorrhagic Shock – Presented at the Twenty-Fifth Annual Conference on Shock. 2003

4. Todd SR, Malinoski D, **Schreiber MA**. Lactated Ringer's is Superior to Normal Saline in Uncontrolled Hemorrhagic Shock - Presented at the Twenty-Fifth Annual Conference on Shock. 2003
5. Brundage SI, **Schreiber MA**, Mastrangelo MA, Holcomb JB, Macaitis JM, Moreno CE, Twardy DJ, Increased Magnitude of Shock in a Swine Model of Uncontrolled Hmorrhage Results in Increased Liver Damage and Local IL-6 and G-CSF Production – Presented at the Twenty-Fifth Annual Conference on Shock 2002
6. Scott BG, Holcomb JB, Hess JR, **Schreiber MA**, Hudson KL, Wall MJ, Age of Packed Red Blood Cells did not Affect Mortality of Trauma Patients – Presented at The Southwest Surgical Congress May, 2001
7. Dorlac WC, Holcomb JB, Fagan SP, Kwong KL, **Schreiber MA**, Moore FA, Mattox KL, Exsanguination from Isolated Civilian Extremity Injuries – Presented at The Southwest Surgical Congress May, 2001
8. Aoki N, Scott BG, Holcomb JB, Zupan B, Demsar J, **Schreiber MA**, Brundage SI, Persse D, Beck JR, Wall MJ, Mattox KL, Prehospital Prognostic Factors for Patients with Penetrating Injury. Presented at The Southwest Surgical Congress May, 2001
9. **Schreiber MA**, Holcomb JB, Brundage SI, Maciatis JM, Twardy D, Hedner U, Hoots K. The Effect of rFVIIa on Coagulopathic Pigs with Grade V Liver Injuries. Presented at the 6<sup>th</sup> Novo Nordisk Symposium on the Treatment of Bleeding and Thrombotic Disorders Copenhagen, Denmark May, 2001
10. **Schreiber MA**, Charles NC, Kopchinski B, Stewart T, Aoki N. The Effect of Urokinase on Bleeding and the Coagulation Cascade in a Pig Liver Injury Model.
11. Presented at the 2001 International Society of Thrombosis and Haemostasis Paris, France July, 2001
12. **Schreiber MA**, Brill S, Stewart TR, Base Deficit is a Poor Predictor of Lactic Acidosis and Mortality in Critically Ill Patients – Presented at the Michael E. DeBakey International Surgical Society 2000
13. Tyroch A, Kaups K, Lorenzo M, Solis D, **Schreiber M**, Routine Chest Radiographs are Not Indicated After Open Tracheostomy: A Multi-Center Perspective – Presented at the American Association for the Surgery of Trauma 2000

14. **Schreiber MA**, Charles NC, Kopchinski B, Stewart T, The Effect of Urokinase on Bleeding and the Coagulation Cascade in a Pig Liver Injury Model - Presented at the American Association for the Surgery of Trauma 1999
15. Hardaway RM, Kwong KL, **Schreiber MA**, William C, A New Treatment for Acute Respiratory Failure - Presented at The American College of Surgeons Fall Meeting 1998
16. **Schreiber MA**, Pusateri AE, Veit BC, Smiley RA, Morrison CA, Harris RA, Timing of Vaccination Does not Affect Antibody Response or Survival Following Pneumococcal Challenge in Splenectomized Rats – Presented at the American Association for the Surgery of Trauma 1997

## CLINICAL PRESENTATIONS

1. Hemorrhagic Complications of Central Venous Catheterization - Presented at the 10th Annual Gary P. Written Surgical Symposium Tacoma, WA 1988
2. Penetrating Neck Trauma on Mount Rainier-Seattle Surgical Society 1995
3. Complimentary Use of Peritoneal Lavage and CT in the Management of Blunt Abdominal Trauma - Presented at the Pacific Coast Surgical Association Scientific Program 1996
4. Effect of Pre-peritoneal and Intra-peritoneal Insufflation on Femoral Venous Flow - Presented at the Washington State Chapter Meeting of the ACS 1996
5. Abdominal Compartment Syndrome - R. E. Thomason Hospital Trauma Grand Rounds, El Paso, Texas 1998
6. Penetrating Neck Trauma - Providence Memorial Hospital Trauma Grand Rounds, El Paso, Texas 1998
7. Cost Effective Evaluation of the Abdomen in Blunt Trauma - 4th Annual Army Symposium on Trauma, San Antonio, TX 1998
8. Cost Effective Evaluation of the Abdomen in Blunt Trauma - Ben Taub General Hospital Grand Rounds 1998
9. MAST Services in El Paso: A Retrospective Analysis and Comparison to the Major Trauma Outcome Study, Current - Winner Army Trauma Competition at Gary Wratten Symposium 1998
10. Hyperchloremic Metabolic Acidosis in the Critically Ill Trauma Patient, Current - Presented At Gary Wratten Symposium 1998

11. The Effect of Tricare on a Surgical Residency Program - Presented at Gary Wratten Symposium 1998
12. Substernal Goiter: Is Operative Management Mandatory? -Winner 3rd Place in Resident Competition at the 1998 Southern Medical Association Meeting The Effect of Urokinase on Bleeding and the Coagulation Cascade in a Pig Liver Injury Model - 2nd Place Army Trauma Competition, Gary Wratten Symposium 1999
13. Cost Effective Evaluation of the Abdomen in Blunt Trauma - University of Utah Trauma Conference 1999
14. Damage Control Surgery, Physiologic Considerations - Baylor College of Medicine Anesthesia Grand Rounds 1999
15. Damage Control Surgery, Physiologic Considerations - William Beaumont Army Medical Center Multidisciplinary Trauma Conference 1999
16. Damage Control Surgery, Physiologic Considerations – Baylor College of Medicine Surgery Grand Rounds 2000
17. Trauma at Ben Taub – Hermann Hospital Trauma Development Day 2000
18. Abdominal Compartment Syndrome – William Beaumont Army Medical Center Multidisciplinary Trauma Conference 2000
19. Abdominal Compartment Syndrome – Ben Taub General Hospital Multidisciplinary Trauma Conference 2000
20. Tackling Trauma Transfers – Trauma Care 2000, Warwick Hotel, Houston, TX September 2000
21. Recombinant Factor VIIa: A Novel Approach to Hemorrhage Control, Advanced Technology Applications to Combat Casualty Care, Ft Walton Beach, FL September 2000
22. Damage Control Surgery, Physiologic Considerations – University of California San Francisco at Fresno Surgical Grand Rounds, Fresno, CA November 2000
23. Determinants of Mortality in Patients with Severe Blunt Head Injury – Michael E. Debakey International Surgical Society, Houston, TX. November 2000
24. The Effects of Urokinase on Bleeding and the Coagulation Cascade in a Pig Liver Injury Model – Michael E. DeBakey International Surgical Society, Houston, TX. November 2000

25. Determinants of Mortality in Patients with Severe Blunt Head Injury – Eastern Association for the Surgery of Trauma, Tampa Bay, FL January 2001. Firearms in the US and at Ben Taub – Million Moms March, Greater Houston Area Chapter, Houston, TX March 2001
26. Modulation of the Coagulation Cascade in Trauma Patients – Oregon Health Sciences University Surgical Grand Rounds, Portland, OR May 2001
27. Base Deficit Does not Predict Mortality when it Secondary to Hyperchloremic Acidosis – The Shock Society, Marco Island, FL June 2001
28. The Effect of Recombinant Factor VIIa on Non-Coagulopathic Pigs with Grade V Liver Injuries – International Society on Thrombosis and Haemostasis, Paris, France July 2001
29. The Effect of Recombinant Factor VIIa on Coagulopathic Pigs with Grade V Liver Injuries – Advanced Technology Applications to Combat Casualty Care, Ft Walton Beach, FL September 2001
30. Diversion: A Necessity for Survival – The Harris County Hospital District Annual Trauma Workshop, Houston, TX October 2001
31. Adult Respiratory Distress Syndrome – Rio Grande Trauma Conference & Pediatric Trauma Update III, El Paso, TX November 2001
32. Military Trauma Training Performed in a Civilian Trauma Center – Association for Academic Surgery, Milwaukee, WI November 2001
33. The Effect of Recombinant Factor VIIa on Coagulopathic Pigs with Grade V Liver Injuries - Eastern Association for the Surgery of Trauma, Orlando, FL January 2002
34. Modulation of the Coagulation Cascade in Trauma Patients – 13<sup>th</sup> Annual Northwest states Trauma Conference, Bend, OR April 2002
35. Adult Respiratory Distress Syndrome – Oregon Health Sciences University Surgical Grand Rounds, Portland, OR October 2002
36. Modulation of the Coagulation Cascade in ICU Patients – 29<sup>th</sup> Annual Oregon Chapter of the Society of Critical Care Medicine Critical Care Symposium, Portland, OR November 2002
37. Management of the Severely Injured – 34<sup>th</sup> Annual Family Practice Review, Portland, OR February 2003

38. Modulation of the Coagulation Cascade in Trauma Patients - Grand Rounds, Brooke Army Medical Center, San Antonio, TX June 2003
39. Future Directions: Managing Anemia in the Surgical Patient - 39th Annual Meeting Oregon Chapter American College of Surgeons, Sunriver, OR September 2003
40. Modulation of the Coagulation Cascade - Grand Rounds, University of California San Francisco - East Bay, Oakland, CA October 2003
41. Abdominal Compartment Syndrome - 30th Annual Critical Care Symposium, Portland, OR October 2003
42. Resuscitation of Uncontrolled Hemorrhagic Shock - Anesthesia Grand Rounds, Oregon Health & Science University, Portland, OR January 2004
43. Management of the Severely Injured - 35th Annual Family Practice Review, Portland, OR February 2004
44. Recombinant Factor VIIa, Uses in Trauma - 33rd Critical Care Congress of the Society of Critical Care Medicine, Orlando, FL February 2004
45. Initial Resuscitation of the Trauma Patient, Hemoglobin Substitutes - 15th Annual Trauma Conference Harborview Medical Center, Seattle, WA March 2004
46. Resuscitation Pearls – 15<sup>th</sup> Annual Northwest States Trauma Conference, Sunriver, OR April 2004
47. Novel Methods of Hemorrhage Control – 15<sup>th</sup> Annual Northwest States Trauma, Conference, Sunriver, OR April 2004
48. Modulation of the Coagulation Cascade - Grand Rounds, University of Texas Houston, TX May 2004
49. Hypercoagulability is Most Prevalent Early after Injury and in Females - American Association for the Surgery of Trauma Maui, Hawaii October 2004
50. Resuscitation in 2004: Are We Doing it the Right Way? 2nd Annual Directors' Forum Maui, Hawaii October 2004
51. Catastrophic Bleeding. The American Red Cross Portland, OR October 2004
52. What's New in Resuscitation?, Novel Methods of Hemorrhage Control and Adult Respiratory Distress Syndrome in the Trauma Patient. Portneuf Trauma and Emergency Care Conference Pocatello, Idaho October 2004

53. Lactated Ringer's is Superior to Normal Saline for the Resuscitation of Hemorrhagic Shock - Grand Rounds, Oregon Health & Science University December 2004
54. Modulation of the Coagulation Cascade in Trauma Patients. St. Charles Medical Center Trauma Conference. Bend, Oregon January 2005.
55. Management of the Severely Injured - 36th Annual Family Practice Review, Portland, OR February 2005
56. Modulation of the Coagulation Cascade. Marin General Hospital Trauma Conference. Marin, California March 2005
57. An OHSU Surgeon Goes To War. 23<sup>rd</sup> Annual Northwest Winter Conference in Emergency Medicine. Sunriver, Oregon January 2006
58. Hemoglobin-Based Oxygen Carrier (HBOC) Use in Neurotrauma Care. Invited Discussant. Eastern Association for the Surgery of Trauma. Orlando, Florida January 2006
59. Control of Hemorrhage: It Pays to be Aggressive. 17<sup>th</sup> Annual Northwest States Trauma Conference. Sunriver, Oregon April 2006
60. The Iraqi Experience. 17<sup>th</sup> Annual Northwest States Trauma Conference. Sunriver, Oregon April 2006
61. Medical Care in Operation Iraqi Freedom III. Trauma Conference. Santa Rosa, CA June 2006
62. Medical Care in Operation Iraqi Freedom III. Surgical grand Rounds, Providence St. Vincent Medical Center. Portland, Oregon August 2006
63. Potential Benefits of Ketamine as a Battlefield Anesthetic. Advanced Technology Applications for Combat Casualty Care. St. Petersburg, Florida August 2006
64. Predictors of Massive Transfusion in Combat Casualties. Advanced Technology Applications for Combat Casualty Care. St. Petersburg, Florida August 2006
65. Airway Pressure Release Ventilation. Trends in Respiratory & Acute Care. Troutdale, Oregon September 2006.
66. Hemostasis in Military Casualties. Second Thrombin Symposium. Challenges in Surgical Hemostasis. Seattle, Washington September 2006.

67. Postmortem Computed Tomography (CATopsy) Predicts Cause of Death in Trauma Patients. Invited Discussant. American Association for the Surgery of Trauma. New Orleans, Louisiana September 2006.
68. Early vs. Late Recombinant Factor VIIa Usage in Trauma patients Requiring Massive Transfusion in Combat Support Hospitals. American Association for the Surgery of Trauma. New Orleans, Louisiana September 2006.
69. Early Coagulopathy after Traumatic Brain Injury: The Role of Hypoperfusion and the Protein C Pathway. Invited Discussant. American Association for the Surgery of Trauma. New Orleans, Louisiana September 2006.
70. Induction of Profound Hypothermia Improves Survival in a Swine Model of complex Vascular, Splenic, and coonic Injuries, without an Increase in Bleeding and Septic Complications. Invited Discussant. American College of Surgeons. Chicago, Illinois October 2006.
71. Comparison of Prolonged Hypotensive and Normotensive Resuscitation Strategies in a Porcine Model of Hemorrhagic Shock. Invited Discussant. American College of Surgeons. Chicago, Illinois October 2006.
72. Mesenteric Ischemia. American College of Surgeons. Chicago, Illinois October 2006.
73. Fluids and Their Effects on Hemostasis. American College of Surgeons. Chicago, Illinois October 2006.
74. Is Hypothermia after Major Injury Protective or Harmful? American College of Surgeons. Chicago, Illinois October 2006.
75. Medical Care in Operation Iraqi Freedom III. Portland Surgical Society. Portland, Oregon October 2006
76. Modulation of Coagulation. Trauma conference, Albany General Hospital. Albany, Oregon November 2006
77. Care of Patients in Operation Iraqi Freedom III. Thirty-third Annual Critical Care Symposium. Portland, Oregon November 2006
78. A Reserve Surgeon Goes to War. Annual Training Conference, 6<sup>th</sup> Medical Recruiting Battalion. Las Vegas, Nevada December 2006
79. Medical Care in Operation Iraqi Freedom III. Internal Medicine Grand Rounds, Oregon Health & Science University. Portland, Oregon January 2007

80. Endotoxin tolerance in Sepsis: Concentration Dependent Augmentation or Inhibition of LPWS-Stimulated Macrophage TNF Secretion by LPS Pretreatment. Invited Discussant. Eastern Association for the Surgery of Trauma. Fort Myers, Florida January 2007
81. Fibrin Sealants. Extremity War Injuries II. Washington DC, January 2007.
82. Novel Methods of Hemorrhage Control. 24<sup>th</sup> Annual Northwest Winter Conference in Emergency Medicine. Sunriver, OR, January 2007.
83. Novel Methods of Hemorrhage Control. Vascular Conference. Oregon Health & Science University, Portland, Oregon February 2007.
84. Resuscitation and Systemic Hemorrhage Control. 45<sup>th</sup> Critical Care, Trauma and Emergency Medicine Symposium, Las Vegas, NV February 2007.
85. Emergent Hemorrhage Control. 45<sup>th</sup> Critical Care, Trauma and Emergency Medicine Symposium, Las Vegas, NV February 2007.
86. Lessons Learned from Operation Iraqi Freedom III. 45<sup>th</sup> Critical Care, Trauma and Emergency Medicine Symposium, Las Vegas, NV February 2007.
87. The Abdominal Compartment Syndrome. 45<sup>th</sup> Critical Care, Trauma and Emergency Medicine Symposium, Las Vegas, NV February 2007.
88. Lessons Learned from Operation Iraqi Freedom III. Josephine County Medical Society Dinner, Grants Pass, Oregon May 2007.
89. Assessing the Medical Resource Needs of Combat Support Hospitals. Advanced Technology Applications for Combat Casualty Care, St. Petersburg, Florida August 2007.
90. Characterization of a novel Fibrinogen Hemostatic Agent in Animal Injury Models. Advanced Technology Applications for Combat Casualty Care, St. Petersburg, Florida August 2007.
91. Invited Discussant: Causes of Death and Injury Severity in Operation Iraqi Freedom and Operation Enduring Freedom: 2003-2004 vs. 2006. Advanced Technology Applications for Combat Casualty Care, St. Petersburg, Florida August 2007.
92. Invited Discussant: Blood Product Effect on Survival for Patients with Combat Related Injuries. Advanced Technology Applications for Combat Casualty Care, St. Petersburg, Florida August 2007.

93. Research: Questions and Answers from Academic Trauma Surgeons. American Association for the Surgery of Trauma, Las Vegas, NV September 2007.
94. Optimal Resuscitation Endpoints. American College of Surgeons. New Orleans, LA October 2007.
95. Invited Discussant: Induced Hypothermia is Associated with Improved Outcomes in Porcine Hemorrhagic Shock. American College of Surgeons. New Orleans, LA October 2007.
96. Closure of Paper. Management and Outcome of Pneumatosis Intestinalis. North Pacific Surgical Association. Victoria, British Columbia. November 2007.
97. Permissive Hypotension, Fluid Resuscitation and Coagulopathies in the Trauma Patient. Kadlec Hospital Grand Rounds. Richland, Washington. December 2007.
98. Lessons Learned in the War on Terror. East Bay Surgical Society. Walnut Creek, California. February 2008.
99. The Effect of Fluid on Coagulation. Highland Hospital Surgical Grand Rounds. Oakland, California February 2008.
100. The Use of Leukoreduced Blood does not Reduce Infection, Organ Failure, or Mortality Following Trauma. Senior Discussant. Pacific Coast Surgical Association, 79<sup>th</sup> Meeting. San Diego, California February 2008.
101. Is There a Role for Aggressive use of Fresh Frozen Plasma in Massive Transfusion of Civilian Trauma Patients? Invited Discussant. Southwestern Surgical Congress. Acapulco, Mexico April 2008.
102. Ongoing Medical Advances in the War on Terror. Northwest States Trauma Conference. Bend, Oregon April 2008.
103. Blood Transfusions: Kindness or Murder. Northwest States Trauma Conference. Bend, Oregon April 2008.
104. Good Drugs Gone Bad! Antithrombotic Agents and Their Reversal in Trauma. Adding Insult to Injury: The Role of Chronic Conditions in Acute Trauma Care. Billings, Montana May 2008.
105. Fluid Modulates Coagulation after Trauma. Adding Insult to Injury: The Role of Chronic Conditions in Acute Trauma Care. Billings, Montana May 2008.

106. Medical Advances Made in the War on Terror. Billings Clinic Grand Rounds. Billings, Montana May 2008.
107. Fibrin Sealants to Stop Bleeding in Surgery. American College of Surgeons 94<sup>th</sup> Annual Congress. San Francisco, California October 2008.
108. Modern Control of Hemorrhage. Balboa Naval Hospital Grand Rounds. San Diego, California January 2009.
109. The Use of Lyophilized Plasma for Resuscitation in a Swine Model of Resuscitation. 80<sup>th</sup> Annual Meeting of the Pacific Coast Surgical Association. San Francisco, California February 2009.
110. A Simplified Set of Trauma Triage Criteria Safely Reduces Over-Triage: A Prospective Study. Invited Discussant. 80<sup>th</sup> Annual Meeting of the Pacific Coast Surgical Association. San Francisco, California February 2009.
111. Admission Ionized Calcium Levels Prdict the Need for Multiple Transfusions: A Prospective Study of 591 Critically-Ill Trauma Patients. Invited Discussant. American Association for the Surgery of Trauma. Pittsburgh, Pennsylvania October 2009.
112. Activated Recombinant Factor VIIa Reduces Repeated Operations for Hemorrhage Following Major Abdominal Surgery. Invited Discussant. 80<sup>th</sup> Annual Meeting of the Pacific Coast Surgical Association. San Francisco, California February 2009.
113. Progress with New Formulations of Lyophilized Plasma. Advanced Technology Applications for Combat Casualty Care, St. Petersburg, Florida August 2009.
114. New Hemostatic Agents to Control Bleeding; Meet the Expert Luncheon. American College of Surgeons, Chicago, Illinois October 2009
115. Surgical Resident Perceptions of Trauma Surgery as a Specialty. Invited Discussant. American College of Surgeons, Chicago, Illinois October 2009
116. Resuscitation of Hemorrhagic Shock in 2009. Detroit Trauma Symposium. Detroit, Michigan November 2009
117. Modern Methods of Hemorrhage Control. Detroit Trauma Symposium. Detroit, Michigan November 2009
118. Splenectomy May Lead to a Persistent Hypercoagulable State after Trauma. North Pacific Surgical Association. Portland, OR November 2009

119. How Bad is Blood? 36<sup>th</sup> Annual Critical Care Symposium. Portland, OR November 2009.
120. Normal Saline. Prehospital Fluid Conference. Dallas, Texas January 2010.
121. Ethanol Consumption Increases Serum Testosterone in Healthy Volunteers. Pacific Coast Surgical Association. Maui, Hawaii February 2010.
122. The Impact of ABO-Identical Versus ABO-Compatible, Nonidentical Plasma Transfusion in Trauma Patients. (Invited Discussant) Pacific Coast Surgical Association. Maui, Hawaii February 2010.
123. Indications for and Risks of Pre-thawed Fresh Frozen Plasma. 8<sup>th</sup> World Congress on Trauma, Shock, Inflammation and Sepsis. Munich, Germany March 2010.
124. The Use of the Wittmann Patch Facilitates a High Rate of Fascial Closure in Severely Injured Trauma Patients and Critically Ill Surgery Patients. 8<sup>th</sup> World Congress on Trauma, Shock, Inflammation and Sepsis. Munich, Germany March 2010.
125. Point of Care Diagnostics for Assessment of Acute Coagulopathy. 8<sup>th</sup> World Congress on Trauma, Shock, Inflammation and Sepsis. Munich, Germany March 2010.
126. Necrotizing Fasciitis. Trauma, Critical Care & Acute Care Surgery 2010. Las Vegas, Nevada March 2010.
127. Blood Volume Repletion is Optimally Performed in the ICU. Trauma, Critical Care & Acute Care Surgery 2010. Las Vegas, Nevada March 2010.
128. The Effects of Systemic Trauma on Coagulation. Trans Agency Coagulopathy in Trauma Workshop. National Institutes of Health. Bethesda, Maryland April 2010.
129. The Joint Theater Trauma System. CENTCOM Surgeon's Conference. Qatar June 2010.
130. Blood Transfusions, Kindness or Murder. Grand Rounds Craig Joint Theater Hospital. Bagram, Afghanistan July 2010.
131. Joint Theater Trauma System, Applications to Civilian Systems. 96<sup>th</sup> Annual Congress of the American College of Surgeons. Washington DC, October 2010.

132. The Joint Theater Trauma System. Vancouver General Hospital Trauma Rounds. Vancouver, Washington December 2010.
133. Systemic Hemostatic Agents – Non-FDA Approved Uses. Public Workshop: Product Development Program for Interventions in Severe Bleeding Due to Trauma or Other Causes. FDA, Bethesda, Maryland December 2010.
134. Acute Coagulopathy of Trauma. Combat Trauma Innovation. London, England January 2011.
135. Pro-Coagulant Hemostatic Agents. Combat Trauma Innovation. London, England January 2011.
136. Damage Control Resuscitation – Plasma and Plasma Products. London, England January 2011.
137. Colon Injuries, What Would Ogilvie Say in 2011. Eastern Association for the Surgery of Trauma. Naples, Florida January 2011.
138. Splenic Injuries – Is it Time for Conservative Management in Theater? Eastern Association for the Surgery of Trauma. Naples, Florida January 2011.
139. Point:Counter Point – Operative Fixation of Flail Chest and Rib Fractures. Western Trauma Associaiton. Big Sky, Montana March 2011.
140. Joint Theater Trauma System and the Blood Bank – 39<sup>th</sup> Annual Meeting of the Society of Armed Forces Medical Laboratory Scientists, Armed Services Blood Program Update. New Orleans, Louisiana March 2011.
141. Make it Stick: Coagulopathy Management 2011 and the Future. Trauma, Critical Care & Acute Care Surgery 2011. Las Vegas, Nevada April 2011.
142. Norma Saline: Is it Safe? Trauma, Critical Care & Acute Care Surgery 2011. Las Vegas, Nevada April 2011.
143. Normal Saline Versus Lactated Ringer's: Would the FDA Approve Normal Saline for Use in 2011? University of Texas Grand Rounds. Houston, TX May 2011.
144. The Joint Theater Trauma System – Washington, Oregon American College of Surgeons Chapter Meeting. Chelan, Washington June 2011
145. The Joint Theater Trauma System and How 9/11 Influenced It. 9/11 Ten Years Later. What Have We Learned? New York University, New York, New York. September 2011.

146. Blast Injuries: From the Field to the ICU, What You Need to Know. 9/11 Ten Years Later. What Have We Learned? New York University, New York, New York. September 2011.
147. Controversies Concerning the Use of Fresh Whole Blood in the Military Setting. 22<sup>nd</sup> International Congress of the Israel Society of Anesthesiologists. Tel Aviv, Israel. September 2011.
148. Conflicts in Iraq and Afghanistan: Lessons Learned. 22<sup>nd</sup> International Congress of the Israel Society of Anesthesiologists. Tel Aviv, Israel. September 2011.
149. Blood Transfusions: The Rules Have Changed. 97<sup>th</sup> Annual American College of Surgeons Clinical Congress. San Francisco, California. October 2011.
150. What is Lyophilized Plasma? 97<sup>th</sup> Annual American College of Surgeons Clinical Congress. San Francisco, California. October 2011.
151. Novel Methods of Hemorrhage Control. 3<sup>rd</sup> Annual Southwest Trauma & Acute Care Symposium. Scottsdale, Arizona. November 2011.
152. Novel Blood Products for Treatment of Hemorrhagic Shock 3<sup>rd</sup> Annual Southwest Trauma & Acute Care Symposium. Scottsdale, Arizona. November 2011.
153. The Acute Coagulopathy of Trauma, Diagnosis and Treatment. Trauma Care 2011. Columbus, Ohio. November 2011.
154. What is the Difference Between Trauma Centers? Appropriate Triage of Trauma Patients. Trauma Care 2011. Columbus, Ohio. November 2011.
155. The Year in Combat. Eastern Association for the Surgery of Trauma. Orlando, FL. January 2012.
156. The Current Status of Hemostatic Dressings. Combat Trauma Innovation 2012. London, England. January 2012.
157. The Acute Coagulopathy of Trauma and its Treatment in 2012. Combat Trauma Innovation 2012. London, England. January 2012.
158. Lyophilized Plasma: Coming to a Hospital Near You. Combat Trauma Innovation 2012. London, England. January 2012.
159. Dilutional Coagulopathy, How to Measure and How to Correct. 41<sup>st</sup> Critical Care Congress. Houston, Texas. February 2012.

160. Low Volume Fluid Resuscitation. Prehospital Trauma Symposium. Harborview Medical Center. Seattle, Washington. February 2012.
161. The Acute Coagulopathy of Trauma: Pathophysiology, Diagnosis and Novel Treatments. University of Maryland, Department of Surgery and Division of Trauma Grand Rounds. Baltimore, Maryland. February 2012.
162. Disasters Lessons Learned in the War on Terror. Trauma, Critical Care & Acute Care Surgery 2012. Las Vegas, Nevada. March 2012.
163. Resuscitation Redefined. Trauma, Critical Care & Acute Care Surgery 2012. Las Vegas, Nevada. March 2012.
164. Blast Injuries from Battlefield to ICU. Trauma, Critical Care & Acute Care Surgery 2012. Las Vegas, Nevada. March 2012.
165. Lactated Ringers versus Normal Saline for the Resuscitation of Hemorrhagic Shock. Current Topics in Trauma Care 2012. Midland, Texas, April 2012
166. The Use of Lyophilized Plasma in a Multi-injury Pig Model. Remote Damage Control Resuscitation. Bergen, Norway, June 2012.
167. Near Infrared Spectroscopy: Clinical and Research Uses. Remote Damage Control Resuscitation. Bergen, Norway, June 2012.
168. The Way Forward in Resuscitation Research. FDA Workshop on Benefits and Risks of Hydroxyethyl Starch for Resuscitation. Bethesda, Maryland. September 2012.
169. The Joint Theater Trauma System, The Greatest Trauma System Ever Created. Trauma Center Association of America. Charleston, South Carolina. October 2012.
170. Modern Methods of Hemorrhage Control, 2012 and Forward. Trauma Center Association of America. Charleston, South Carolina. October 2012.
171. Hypotensive Resuscitation; Death of Another Sacred Cow. American Heart Association. Los Angeles, CA. November 2012.
172. The Acute Coagulopathy of Trauma. West Virginia University Department of Surgery Grand Rounds. Morgantown, West Virginia. November 2012.

173. The Joint Theater Trauma System, The Greatest Trauma System Ever Created. OPALS Prehospital Research Group Meeting. Ottawa, Canada. November 2012.
174. Hypotensive Resuscitation, Progress Report from the Resuscitation Outcomes Consortium. OPALS Prehospital Group Meeting. Ottawa, Canada. November 2012.
175. Initial Management of the Trauma Patient. Trauma & Emergency Surgery. American Austrian Foundation. Salzburg, Austria. January 2013.
176. Considerations in Penetrating Trauma. Trauma & Emergency Surgery. American Austrian Foundation. Salzburg, Austria. January 2013.
177. Damage Control Surgery. Trauma & Emergency Surgery. American Austrian Foundation. Salzburg, Austria. January 2013.
178. The Joint Theater Trauma System, The Greatest Trauma System Ever Created. February in Phoenix Trauma Symposium. February 2013.
179. Blast Injury: What You Need to Know. February in Phoenix Trauma Symposium. Phoenix, Arizona February 2013.
180. Frozen Deglycerolized Red Blood Cells are Superior to Standard Liquid Red Blood Cells. Transfusion 2013. Phoenix, Arizona March 2013.
181. The Joint Theater Trauma System, The Greatest Trauma System Ever Created. Arkansas Trauma Conference. Little Rock, Arkansas April 2013
182. Modern Methods of Hemorrhage Control. Arkansas Trauma Conference. Little Rock, Arkansas April 2013
183. Major Venous Injuries Should Always be Repaired. Austin Trauma & Critical Care Conference. Austin, Texas May 2013
184. Topical Hemostatic Agents. Austin Trauma & Critical Care Conference. Austin, Texas May 2013
185. Novel Blood Transfusion Strategies. John Paul Pryor Oration, University of Pennsylvania. Philadelphia, Pennsylvania June 2013
186. Novel Methods of Hemorrhage Control. University of Pennsylvania Trauma Grand Rounds. Philadelphia, Pennsylvania June 2013
187. Resuscitation 2013. World Trauma Symposium. Las Vegas, Nevada September 2013

188. Modern Methods of Hemorrhage Control. World Trauma Symposium. Las Vegas, Nevada September 2013
189. Adjunctive Therapy for Coagulopathy is Superior. Trauma Quality Improvement Conference. Reno, Nevada November 2013
190. The Use of Thrombelastography to Guide Treatment of Coagulopathy. Thrombelastography Symposium. Moscow, Russia November 2013
191. Blood Transfusions 2014. Burlington Northern Visiting Lectureship in Trauma. University of Texas Southwestern Medical Center. Dallas, Texas. December 2013.
192. Enoxaparin "Tis is Better to Miss a Dose or Never to Have Started it at All?" Trauma, Critical Care & Acute Care Surgery 2014. Las Vegas, Nevada. March 2014. Presented from Shank, Afghanistan.
193. PCC and Fibrinogen, Better Than Plasma? Trauma, Critical Care & Acute Care Surgery 2014. Las Vegas, Nevada. March 2014. Presented from Shank, Afghanistan.
194. Management of Coagulopathy in Trauma – What Do We Know and What is in Store? Critical Care Summer Session. University of California San Diego. San Diego, California. July 2014.
195. Novel Blood Transfusion Strategies. 2<sup>nd</sup> Annual Richard B. Fratianne Endowed Lectureship in Trauma. MetroHealth Medical Center, Department of Surgery Case Western Reserve University. Cleveland, Ohio. July 2014.
196. A Controlled Resuscitation Strategy is Feasible and Safe in Hypotensive Trauma Patients: Results of a Prospective Randomized Pilot Trial. Military Health Systems Research Symposium. Fort Lauderdale, Florida. August 2014.
197. A Controlled Resuscitation Strategy is Feasible and Safe in Hypotensive Trauma Patients: Results of a Prospective Randomized Pilot Trial. American Association for the Surgery of Trauma. Philadelphia, Pennsylvania. September 2014.
198. Is There a TEM Parameter Cut Off That Could Be Used To Withhold Transfusion of Blood Product? Consensus Conference on TEM Based Transfusion Guidelines for Early Trauma Resuscitation. Philadelphia, Pennsylvania. September 2014.
199. Innovative Approaches to Hemorrhagic Shock. SEAHEC 26<sup>th</sup> Annual Trauma & Emergency Symposium. Wilmington, North Carolina. February 2015.

200. Damage Control Resuscitation. University of British Columbia Grand Rounds. Vancouver, British Columbia. February 2015.
201. Frozen Deglycerolized Red Blood Cells are Safe and Effective in Trauma Patients. American Surgical Association. San Diego, California, April 2015.
202. Frozen as Fresh Red Blood Cells for Remote Damage Control Resuscitation. Trauma, Hemostasis & Oxygenation Research Conference. Bergen, Norway. June 2015.
203. When and How Should Tranexamic Acid be Given in the Prehospital Environment? Resuscitation. Trauma, Hemostasis & Oxygenation Research Conference. Bergen, Norway. June 2015.
204. The Advantages of Dried Plasma for Use in Austere Conditions. International Plasma Fractionation Association. Stellenbosch, South Africa. December 2015.
205. Lessons from the Battlefield: How Military Trauma Care Transforms Civilian Care in the United States. Marquam Hill Lecture Series. Portland, OR. February 2016.
206. Blood Transfusions: A Frontier We Have Just Begun to Explore. Laerdahl Memorial Award Lecture. Society of Critical Care Medicine. Orlando, FL. February 2016.
207. Blood Transfusions 2016. Swiss Army Day. Bern, Switzerland. March 2016.
208. Blood Transfusions: An Old Therapy with Exciting New Frontiers. Duke University Department of Surgery Grand Rounds. October 2016.
209. Damage Control Resuscitation. International Society of Blood Therapies. Copenhagen, Denmark. June 2017.
210. Blood Component Therapy and Major Trauma Transfusion. Combined US Army and Qatari Military Trauma Casualty Care Seminar. Doha, Qatar. February 2018.
211. Novel Blood Products Now and Into the Future. R. Arnold Griswold MD Lectureship. Louisville, Kentucky. March 2019.
212. TXA Randomized Comparative Trial Data Review from OHSU. Trauma, Hemostasis & Oxygenation Research. Bergen, Norway. June 2019.

213. Prehospital Tranexamic Acid for Use in TBI. Tranexamic Acid in Trauma Symposium. Melbourne, Australia. July 2019.

214. Dosing of Enoxaparin, Do We Know What We Are Doing. International Association for Trauma and Intensive Care. Krakow, Poland. August 2019.

215. A Randomized Trial Comparing Two Doses of TXA to Placebo in Patients with Moderate to Severe Traumatic Brain Injury. Royal London Hospital Trauma Masters Course. London, England. September 2019.

216. The History of Blood Transfusion: Where Have We Been and Where are We Going? John Ryan Lectureship, Virginia Mason Hospital. Seattle, Washington. September 2019.

217. Whole Blood Transfusion in Trauma. Mae Fae Yung University. Chiang Rai Thailand. November 2019.

218. Blood Transfusion, Where Have We Been and Where are We Going. Royal Perth University Grand Rounds. Perth, Australia. November 2019

219. Stem Cells in Trauma. Western Australia Trauma Symposium. Perth, Australia. Perth Australia. November 2019.

220. Tranexamic Acid for Traumatic Brain Injury. Western Australia Trauma Symposium. Perth, Australia. November 2019.

221. Stem Cells in Trauma. 12<sup>th</sup> Annual Founders' Basic Science Lecture. Western Trauma Association. Sun Valley, Idaho February 2020.

222. Stem Cells in Trauma, the Dawn of a New Era. 3<sup>rd</sup> Annual Kenneth L. Mattox Annual Lecture. Baylor College of Medicine. Houston, TX February 2021.

223. Adjuncts to Massive Transfusion. Shock Society. Toronto, Canada May 2022.

224. Tranexamic Acid for Traumatic Brain Injury. Chicheley Hall, England. July 2022.

225. From Frogs to Boots on the Ground and Beyond. 24<sup>th</sup> Anthony R. Curreri Distinguished Surgical Lecture. Walter Reed Military Medical Center. January 2023.

## **SECTION EDITOR**

1. Batig TS, Batig AL. Obstetric Trauma and Surgical Emergencies in the Military Operational Environment. *Curr Trauma Rep.* 2018; 4:1-8.

2. Bhattacharya, B., Pei, K., Lui, F. et al. Caring for the Geriatric Combat Veteran at the Veteran Affairs Hospital. *Curr Trauma Rep* 2017; 3: 62-68.
3. Eastridge BJ. Injuries to the Abdomen from Explosion. *Curr Trauma Rep*. 2017; 3: 69-74.
4. Plackett TP. Performance Improvement in Combat Casualty Care. *Curr Trauma Rep*. 2018; 4: 71-76.
5. Kuckelman J, Cuadrado D, Martin M. Thoracic Trauma: a Combat and Military Perspective. *Curr Trauma Rep*. 2018; 4: 77-87.
6. Kuckelman J, Derickson M, Long, WB, et al. MASCAL Management from Baghdad to Boston: Top Ten Lessons Learned from Modern Military and Civilian MASCAL Events. *Curr Trauma Rep*. 2018; 4: 138
7. Gurney JM, Holcomb JB. Blood Transfusion from the Military's Standpoint: Making Last Century's Standard Possible Today. *Curr Trauma Rep*. 2017; 3: 144-155.
8. Walker P, Bozzay J, Bell R, et al. Traumatic Brain Injury in Combat Casualties. *Curr Trauma Rep*. 2018; 4: 149-159.
9. Davis BL, Martin, MJ, Schreiber M. Military Resuscitation: Lessons from Recent Battlefield Experience. *Curr Trauma Rep*. 2017; 3: 156-163.
10. Mendoza J, Mallari-Ramos P, Thoren K, et al. Interventional Radiology in the Combat Environment. *Curr Trauma Rep*. 2017; 3: 249-256.
11. Yun HC, Blyth DM, Murray CK. Infectious Complications After Battlefield Injuries: Epidemiology, Prevention, and Treatment. *Curr Trauma Rep*. 2017; 3: 315-323.

## TEXTBOOK EDITOR

1. Feliciano DV, Mattox KL, Moore EE, Alam HB, Ball CG, Inaba K, Kozar R, Livingston DH, **Schreiber MA**. Trauma. McGraw Hill. NY, NY. 2020

# Exhibit B



## CASES IN WHICH DR. MARTIN SCHREIBER PARTICIPATED AS A WITNESS, 2019 - 2023

### 2022

Cutberto Viramontes, et al. v. Cook County, et al  
Court System: U.S. District Court for the Northern District of Illinois,  
Eastern Division  
Case Number: 21 CV 4595

Jones v The Regents of the University of California, et al.  
Court System: Superior Court of California, County of Oregon  
Case No: 30202201255972CUMMCJC

Jorge Mata, et al vs Kavita Kalra, et al  
Court System: Circuit Court for Baltimore City - Civil System  
Case No: 24C21000799

Durst, Lisa, et al. v Dimensions Health Corporation, et al  
Court System: Circuit Court for Prince George's County - Civil System  
Case No: CAL20-12015

Martin Mendoza v Dignity Health, et al  
Court System: Superior Court of Arizona - Maricopa County  
Case No: CV2021-002097

Linda Marie Bowen – Provided opinion

Chaston v. RCH Alexander  
Court System: Multnomah County Circuit Court  
Case No: 19CV01550

Jackson Memorial Hospital in Miami, FL – Asked by institution to review quality of care

### 2021

Fritz – Did not go to trial

Babcock v. Legacy Emanuel Hospital & Health Center, et al.  
Court System: Multnomah County Circuit Court  
Case No: 21CV20733

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*Director, Donald D. Trunkey Center*  
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*Care*

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Bauer v. Norfleet  
Court System: Cook County Circuit Court – Illinois  
Case No: 2017-L-010460

Williams – Did not go to trial

Roy Shaw vs. OSF Healthcare System d/b/a St. Francis Medical Center,  
The Peoria Surgical Group, Ltd.  
Court System: Peoria County Court – Illinois  
Case No: 20-L-00171

Hulda Stebbins vs. OSF Healthcare System, Robin Alley, MD  
Court System: Peoria County Court – Illinois  
Case No: 20-L-00177

## **2020**

Miller/Kristina M. Hull (closed case, no official case name available)  
Court System: Clallam District Court II  
Case No: 1A0509632

Martindale v Indiana University Health, et al  
Court System: US District Court – Southern District of Indiana,  
Indianapolis Division  
Case No: 1:19-cv-00513-RLY-DML

Schiffbauer v OSF Healthcare System, et al  
Court System: Cook County Circuit Court – Illinois  
Case No: 2020L001298

John Sandstrom v Salem Health et al  
Court System: Multnomah County Circuit Court  
Case No: 19CV02923

Kelly White v Providence Health & Services – Oregon; et al  
Court System: Multnomah County Circuit Court  
Case No: 18CV19321

Nadrau v Bax MD  
Court System: Spokane County Superior Court  
Case No: 17-2-02562-8

**2019**

Gordon vs Reading Hospital and Medical Center, Wayne C Devos, MD,  
Frank M Carter, MD, Berks Colorectal Surgical Associates  
Court System: Berks County Court of Common Pleas  
Case No: 12-17768

Welborn vs Sarah Bush Lincoln Health Center, et al  
Court System: Coles County Circuit Court  
Case No: 2016-L-8

Tatham vs Hualapai Mountain Medical Center LLC, Hualapai Emergency  
Partners PLLC and Bruce K Adams, MD  
Court System: Superior Court of Arizona - Maricopa County  
Case No: CV2012-005215

Izenberg v. Scottsdale Hospital, et al  
Court System: Superior Court of Arizona - Maricopa County  
Case No: CV2010-000915

Vasily Kobel vs. City of Portland, James Botaitis, Steven Wuthrich, and  
DOES 1-10  
Court System: United States District Court for the District of Oregon  
Case No: CV-08-986-KI

Hale v OSF Healthcare System, et al  
Court System: Peoria County Court – Illinois  
Case No: 17-L-7

Dametria Hartage vs Mark Zweban, MD and Delaware Cardiovascular  
Associates and Wilmington Hospital/Christiana Care Health Services.  
Court System: Superior Court of the State of Delaware – New Castle  
County  
Case No: N18C-06-005-CEB

Barbara Henry v PeaceHealth Southwest Medical Center – Did not go to  
trial

Knutson v Erdman, et al  
Court System: Superior Court of Washington – Kittitas County  
Case No: 18-2-00115-6

Sharp v. OSF Healthcare System, et al  
Court System: Peoria County Court – Illinois  
Case No: 17-L-316